



FERO ENGINEERING

ENVIRONMENTAL ENGINEERING & CONSULTING

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Mr. David Young
California Regional Water Quality Control Board
Los Angeles Region
Site Cleanup Program
320 West 4th Street, Suite 200
Los Angeles, California 90013

Additional Subsurface Investigation Report
Continental Heat Treating
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)

Fero Environmental Engineering, Inc. ("Fero") submits this report of the additional site assessment work at the subject site consistent with Fero's, November 15, 2011, *Soils Investigation Report and Groundwater Well Installation Work Plan* ("Report"), with the Regional Water Quality Control Board – Los Angeles Region's ("RWQCB"), *Requirement to Submit Additional Technical Reports and Approval of Work Plan for Additional Groundwater Investigation Pursuant to California Water Code Section 13267 Order* ("Directive"), dated January 23, 2012 and with the subsurface investigation portion of the RWQCB's, *Approval of Work Plan for Additional Subsurface Investigation and Indoor Air Sampling Pursuant to California Water Code Section 13267 Order* ("Approval"), dated May 14, 2012. The work was conducted on behalf of Continental Heat Treating, 10643 Norwalk Boulevard, Santa Fe Springs, California 90670. The RWQCB Directive conditionally approved the installation of groundwater monitoring wells discussed in Fero's Report, it requested additional investigations "to delineate the vertical and lateral extent of the VOC plume in groundwater" and "of soil vapor and soil matrix contamination originating from the Site" and it requested a work plan for indoor air sampling to be used to complete a vapor intrusion evaluation for the Site. This report discusses completion of the subsurface investigations at the site. The indoor air sampling and vapor intrusion evaluation will be the subject of future reports.

The investigations discussed herein were developed in a coordinated effort with Cardno ERI, ExxonMobil's consultant in connection with the former Jalk Fee Property to the north. The sampling locations were additionally modified consistent with RWQCB discussions during an onsite meeting on January 12, 2012.

Site Description

The "Site" is located at 10643 Norwalk Boulevard, Santa Fe Springs, California 90670. It consists of an approximate 70,000 ft² rectangular parcel located on the west side of Norwalk Boulevard approximately 450 feet north of Florence Avenue. The parcel is surrounded by primarily industrial

properties: Coast Aluminum and Architectural Inc. to the northwest, NHK Laboratories to the north, Oxyhealth LLC to the south, Excel Garden Products to the east across Norwalk Boulevard and a trophy warehouse/distribution tenant to the west. Improvements on the Site include a 20,000 ft² industrial building built in 1969 which is occupied by Continental Heat Treating, Inc. ("CHT"). Various above ground tanks containing coolants used in CHT's metal treatment processes are located to the south and west of the onsite buildings. A 5,000 ft² addition was added to the west end of the existing building, the face of the entire building was upgraded consistent with City of Industry requirements, and the remainder of the site was paved with concrete during 2011 and 2012. Figure 1 provides a plot of the Site.

CHT or its predecessor have occupied the Site since the building was built in 1969 and they use the building to process metal parts with heat to perform carbon nitriding and nitriding on the metal surfaces. Although no longer in use, CHT used a solvent degreaser in the approximate middle of the building from 1986 to 1995. Centec reported that prior investigations around the degreaser and in the northwest corner of the Site identified concentrations of chlorinated organics.¹

Former occupants of the properties adjacent to the Site were Mobil "Jalk Fee" to the north and former Hathaway oil production to the south and west of the Site. According to a February 21, 1975 Fire Department Permit, Hathaway Oil Company or "Pyramid Oil Company" operated 10,000 gallon gasoline, 5,000 gallon diesel and 5,000 gallon solvent underground storage tanks on the property to the south of the Site. Centec reported that Hathaway stored abandoned equipment proximate to the northwest corner of the Site and that the former Jalk Fee property was used for oil production and storage, as well as other uses, for several decades. Centec further indicated that significant soils and groundwater contamination had been detected on the former Jalk Fee property from at least 1990. Extremely high concentrations of Tetrachloroethylene ("PCE") were reportedly detected within 6 feet of CHT's northwestern fence and approximately 55 feet north of the fence. Mobil reportedly removed soil from VOC impacted areas of their site, including a small excavation slightly north of CHT's northwest corner.

Ongoing soils and groundwater investigations on the former Jalk Fee property indicate elevated concentrations of chlorinated organics and lesser concentrations of fuel hydrocarbons in both the soil and groundwater. The general groundwater flow direction reported by Cardno ERI was to the south toward the Site and therefore the organics originating on the former Jalk Fee property represent a significant threat to the Site.² Fero understands that ExxonMobil is currently performing certain subsurface investigation work on and about the Jalk Fee property. However, Fero was not provided the results of such investigation for consideration in this report. Fero expects that the organics in the soils on the former Jalk Fee property are similarly distributed and that significantly higher

¹ Collins, Steven N., REA and Daniel R. Louks, R.G., *Phase II Site Investigation Report*, January 2002, Centec Engineering, Inc., 1601 Dove Street, Suite 100, Newport Beach, CA 92660

² Anderson, James and Andy Nelson, Revised Well Installation Report, Former ExxonMobil Jalk Fee Property, May 17, 2011, Cardno ERI, 4572 Telephone Road, Suite 916, Ventura, CA 93003

concentrations of both chlorinated organics and fuel hydrocarbons (primarily short chain aliphatics) occur in the gas phase on the Jalk Fee property.

Cardno confirmed that oil production facilities occupied the former Jalk Fee property from the 1920's to 1990 when such facilities were removed so the site could be redeveloped. Cardno further indicated that TRC Alton Geoscience ("TRC") completed remediation at the site along with an exposure assessment that suggested the site did not represent a significant threat to site occupation or to the underlying groundwater. The City of Santa Fe Springs reportedly reopened the site for further investigations and evaluation.

Geology and Hydrogeology

The Site is located within the Santa Fe Springs Oil Field on the Santa Fe Springs Plain, which is part of the Montebello Forebay non-pressure area of the Central Basin. Groundwater is found throughout the region under unconfined conditions in the Recent Alluvium and in the underlying Exposition Aquifer. Within the Santa Fe Springs Oil Field, the upper 100 feet of sediments consist predominantly of permeable sands, although the upper 15 feet of sediments (and at greater depths particularly inside the building on the Site) have a higher silt and clay content and lower permeability. Site investigations indicate the underlying soils consist of interbedded layers of silt, sandy silt, sand and gravel from the surface to at least 170 fbg.

The first regional groundwater-bearing zone in the vicinity of the Site is the Exposition Aquifer, which is encountered at approximately 100 fbg. This aquifer ranges in thickness from 75 to 100 feet and is underlain by a 50 foot thick aquiclude, beneath which is the Gage Aquifer.³ The depth to groundwater during the last year of monitoring has ranged from approximately 91 to 98 feet below top of casing and the slope of the groundwater table has consistently indicated a flow direction of slightly west of south under a gradient of approximately 0.007 ft/ft. The most recent set that included data from the Former Jalk Fee Property also indicated a generally southerly flow under a gradient of 0.0073 ft/ft.

BACKGROUND

Environmental Support Technologies, Inc. ("EST") conducted a subsurface site investigation at the subject Site in March 1997 and it prepared a report, dated May 6 1997 on the investigation titled, *Site Assessment Report, Continental Heat Treating* ("EST Report"). The EST Report described previous investigations conducted at the Site by EST and it provided near surface soil sampling data collected by Green Environmental. EST and Green identified certain chlorinated hydrocarbons consisting primarily of PCE and Trichloroethylene ("TCE") from grade to just above the water table proximate to a former degreaser location. The PCE and TCE were detected at maximum soil gas concentrations of 1,948 µg/L and 156 µg/L, respectively, near the northeast corner of the former degreaser and the

³ California Department of Water Resources. 1961. *Groundwater Geology of the Coastal Plain of Los Angeles County, Idealized Geologic Sections M-M'-M'' and N-N'*.

concentrations generally decreased with increased radial distance away from that location. EST collected soil gas samples at 15 locations across the site at up to four depths at each location to a maximum depth of 35 feet. Based on the soil gas results, a soil boring was conducted to groundwater approximately five feet to the south of the former degreaser. Groundwater was encountered at approximately 68 feet below grade (fbg). PCE was detected in all of the soil samples collected from 5 to 60 fbg at concentrations ranging from 4.8 to 130 µg/Kg.

On January 13, 2004, Fero conducted a soil vapor extraction test using the 2" well installed by EST and determined that sufficient flow could be achieved through the well to facilitate extraction at least proximate to the well. The initial discharge concentration of volatile organic compounds ("VOC") measured at the blower using a Photoionization Detector ("PID") was in excess of 2,000 ppm. Following the test, Fero connected the EST well to a 2.5 Hp blower, moisture knockout and series of carbon canisters located at the rear of the CHT building. The vapor extraction system was started for continuous organics removal on March 2, 2004 after resolution of some wiring issues and, except for periods of carbon change-outs, the system operated continuously from that date through September 21, 2004.

Two borings, FP1 & FP2, located in the area of the former degreaser, were conducted to 60 feet below grade ("fbg") on March 1, 2004 to replace probes previously installed by EST and five probes were installed in each boring at depths of 5, 15, 30, 45 & 60 fbg. Vacuums were measured in the probes on March 2, 2004 after the system had a chance to equilibrate. The vacuums are presented in Table 1.

Data collected during system monitoring indicated a significant reduction in the chlorinated organics in FP1 & FP2, particularly near surface. Although the concentrations of the aliphatic hydrocarbons (would be classified TPHg as it eluted) decreased significantly to 45 fbg in FP1 and to 30 fbg in FP2, the concentrations of these hydrocarbons doubled in FP1-60' and increased in FP2-45' & 60'. The TPH concentration increases at depth suggested a significant offsite contribution and possibly free product on the water table. VOC data collected from FP1 & FP2 are presented in Table 2.

The vapor extraction system did not operate efficiently for removal of the chlorinated hydrocarbons because of the presence of the high concentrations of, primarily aliphatic hydrocarbons in the soil gas. The aliphatics hydrocarbons are more volatile than PCE so they are extracted from the soil more readily. Because of the interference caused by the aliphatic hydrocarbons, the vapor extraction system was shut off on September 21, 2004.

Soils and Groundwater Investigations

Consistent with Fero's approved, *Modified Work Plan Continental Heat Treating 10643 Norwalk Boulevard, Santa Fe Springs, California (Site Id. No. 204GW00, SCP No. 1057)* (Work Plan), dated December 30, 2010, soil gas probes were installed at 14 locations across the property with depths ranging from 5 to 15 fbg for VOCs. Soil samples were collected from four of the soil gas sampling locations at 5 fbg for total petroleum hydrocarbon – carbon chain ("TPHcc") analysis and from three separate locations at 3 fbg for screening analysis of California Assessment Manual ("CAM") metals, including hexavalent Chromium. One boring was advanced to 120 fbg and completed as a

groundwater monitoring well. The sampling locations are indicated on Figure 1. The soil gas sampling data are summarized in Table 3. The soil matrix data are summarized in Table 4 – VOCs, Table 5 – TPHcc, and Table 6 - Metals.

Soil Gas Probe Installations and Sampling

Fero retained Hydro-Geo Spectrum (HGS) to install the soil gas sampling probes designated as FVP5-10 and FVP13-20 as indicated on Figure 1 by the “x” or the “Tx” on October 27, 2011. Probes were installed at each of these locations at 5 and 15 fbg using Geoprobe direct push technology either with truck mounted rig or limited access rig or with hand operated roto-hammer equipment. The probes consist of small diameter (1/4 inch) perforated polyethylene tubing. Upon reaching the desired sampling depth, coarse sand (#3 Monterey or equivalent) was placed through the inside of the Geo Probe rods to form an approximate 2 foot thick permeable sand pack around each of the perforated sections of the probes (to 1 foot above). The probes were sealed from each other and from the surface with hydrated bentonite and concrete. To avoid over saturation of the filter pack, granulated bentonite was used and the amount of water used to hydrate the bentonite seals was minimized.

In addition to these shallow soil gas sampling probe installations and pursuant to Fero’s, RWQCB approved, Work Plan, dated December 30, 2010, Fero retained soil matrix samples from five feet below grade at four of the soil gas points designated as FVP7, 8 10 & 13 on Figure 1. These sampling points are indicated as “Tx” on Figure 1. The collected soil samples were analyzed for total petroleum hydrocarbons carbon chain (TPHcc) content using EPA Method 8015m. The soil matrix samples were collected with the Geoprobe in a stainless steel drive sampler fitted with an acetate sleeve. A section at the lead end of each retained sleeve was removed, capped with Teflon sheeting and rubber caps, properly labeled and placed in a cooler with ice at or near 4° C until delivery at the end of the day to Enviro-Chem Laboratories under proper chain of custody documentation for analysis.

Four deep borings were conducted at the site to install soil gas sampling probes at depths of 5, 15, 30, 60 & 90 fbg at the locations designated as FVP1-4 and as indicated on Figure 1 as an “x” inside a circle. All of these borings were conducted using a CME 75 drill rig (either full rig or limited access rig) fitted with 8” hollow stem auger flights. Soil samples were collected from each boring at 5 foot intervals starting at 5 fbg using a California modified split spoon sampler fitted with 6” stainless steel sleeves for lithologic evaluation. In addition, the samples collected at 5, 15, 30, 60 and 90 fbg were retained for soil matrix testing. At the soil matrix sampling depths, the lead sleeve was retained for analytical testing for TPHcc using EPA Method 8015m. These TPHcc sleeves were sealed with Teflon sheeting and plastic caps, they were labeled properly and placed in an ice chest containing ice at or near 4° C. The lead end of the second sleeves retained for analytical testing were further sampled using EPA Method 5035 techniques for VOC analysis. All of the 40 ml vials generated using this sampling technique were properly labeled and placed in the cooler with the sleeves and the cooler and samples were delivered under proper chain of custody documentation at the end of the day to

Enviro-Chem Laboratories for analysis. Analytical results for the soil matrix sampling are summarized in Tables 4 & 5.

Upon reaching 90 fbg in each of these deep borings, soil gas sampling probes were installed at 5, 15, 30, 60 & 90 fbg. As indicated above, the probes consisted of small diameter (1/4 inch) perforated polyethylene tubing. The probe ends were attached to a 1" diameter PVC pipe to maintain the appropriate sampling depth. Once installed, the annulus of the borehole was finished as indicated above with coarse sand (#3 Monterey or equivalent) placed through the inside of the auger flights as they were being withdrawn to form an approximate 2 foot thick permeable sand pack around each of the perforated sections of the probes (to 1 foot above). The probes were sealed from each other and from the surface with hydrated bentonite and concrete. To avoid over saturation of the filter pack, the amount of water used to hydrate the bentonite seals was tailored to the thickness of the seal. The deep probes were installed on October 19, 20, 21 and 24.

At three locations designated as FVP11 & 12 and PVP1a, indicated by a bold "O" on Figure 1, the Geoprobe was used to collect soil samples at 3 fbg for CAM metals analysis, including hexavalent Chromium, using appropriate EPA Methods. These samples were collected at the appropriate depth using a stainless steel drive sampler fitted with an acetate sleeve. A section at the lead end of each sleeve was removed, capped with Teflon sheeting and rubber caps, properly labeled and placed in a cooler with ice at or near 4° C until delivery at the end of the day to Enviro-Chem Laboratories under proper chain of custody documentation for analysis. The soil samples were collected during the soil gas probe installations on October 27, 2011. Results of the metals analysis are presented in Table 6.

The soil gas probes were allowed a week to equilibrate with the surrounding soils prior to sampling. Soil vapor sampling was conducted by connecting the 1/4 inch sampling tube exiting the ground surface at the sampling points to a glass sampling bulb fitted with Teflon stop cocks and a viton rubber sampling port. The bulb was connected in turn to a vacuum gauge, flow meter and portable sampling pump. Initially, both stop cocks are closed, to observe an absence of flow and a slight vacuum. This demonstrates that the sampling train on the far end of the bulb is leak tight (leak test). The first stop cock (pump end) is then opened. An absence of flow demonstrates that the sampling bulb itself is leak tight. The ground end of the bulb is then opened, and a flow of 150 ml/min is maintained for seven to ten purge volumes. During the sampling, an open container of Pentane or iso-Butylene is exposed to the sampling train. Any trace of either of these compounds detected in the sample indicates the intrusion of ambient air into the sampling train invalidating the results of the sample (leak test). The sampling bulbs were delivered by HGS to their stationary laboratory for analysis by GCMS for EPA Method 8260 volatile organic compounds (VOCs). The analysis also provided concentrations for the volatile fraction of aliphatic hydrocarbons in the C3 to C13 range. All of the samples were analyzed by HGS within 24 hours. Soil vapor samples were analyzed for all target compounds listed in section 3.1 of the *Interim Guidance for Active Soil Gas Investigations*. Results of the soil gas sampling are summarized in Table 3.

Groundwater Sampling

Fero obtained permits from the Los Angeles County Department of Public Health to construct three groundwater monitoring wells on the subject property (copies included in Attachment A). BC2

Environmental Corporation was subsequently retained to install the wells during the period from August 3 - 5, 2010. Well MW1 was installed southwest of the onsite building near the southern property line in an anticipated down gradient groundwater flow direction, well MW2 was located near the northwestern corner of the Site, and well MW3 was located near the northeastern corner of the Site. Wells MW1 & 2 were installed using a CME-75 drill rig fitted with 8 inch diameter hollow stem augers. Because of limitations due to overhead power lines and trees, well MW3 was installed with a limited access rig fitted with the same 8 inch diameter augers. Well locations are indicated on Figure 2.

Soil samples were obtained from each of the well boreholes at five foot intervals in an undisturbed state utilizing a stainless steel California modified split spoon drive sampler fitted with three stainless steel sleeves. Upon removing the soil from the specified depths and locations, the soil in the lead sample sleeve was subsequently sampled with an Easy Draw Syringe consistent with EPA Method 5035 low-level VOC sampling protocol. The syringe was inserted into the soil within the sample tube in such a way that no headspace was allowed and 5 grams of soil was retained in the syringe. The sample was then injected into a 40-ml vial containing preservative. This process was repeated four times for each sample location, resulting in four vials of soil in appropriate preservatives. The vials were immediately capped, appropriately labeled, stored in a cooler at a temperature near 4° C, and delivered at the end of the day under proper chain of custody documentation to Enviro-Chem, Inc. in Pomona, a State of California certified laboratory. Enviro-Chem analyzed all the soil samples for VOCs using EPA Method 8260b. The results of the laboratory analyses are summarized in Table 7.

The well borings were logged by a Fero geologist and were visually classified in the field in accordance with the Unified Soil Classification System (USCS) and American Society for Testing and Materials (ASTM) which include evaluations of moisture content, consistency, texture, and soil characteristics. The soils generally consisted of sands and silts. Soil samples were obtained at five foot intervals to a depth of 95 feet in all borings. Groundwater was encountered at a depth of approximately 98 feet in the well borings.

The monitoring wells were constructed of 2 inch diameter Schedule 40 PVC casing to a depth of 120 feet below grade (fbg) with a 30 foot screened interval. The screen consisted of 0.020 inch slotted pipe and the filter pack in the annular space to approximately 2 foot above the screened section consisted of #3 Monterey sand. Four to five feet of hydrated bentonite chips were paced on top of the sand pack and the annulus from the bentonite seal to approximately 1 fbg was filled (tremie method) with Portland type III cement slurry and the installations were completed at grade with concrete and a traffic-rated well vault.

On August 9, 2010, each of the wells were subsequently developed using a Smeal development rig. The development was conducted using a decontaminated suction bailer, a surging assembly and well pump until water flowed unhindered through the well screens of each well and the development water appeared free of soil fines. During the development process 110 gallons were removed from wells MW1 and MW2 and 55 gallons were removed from MW3. All development water was contained onsite in DOT approved water tight containers, the water was characterized and removed from the site for proper disposal on September 13, 2010.

On August 20, 2010, after the wells had time to stabilize, the depth to the water surface in each well was measured with electronic gauging equipment which allows an accuracy of 0.01 feet. Table 8 provides the gauging data. The well casings were surveyed on August 10, 2010 with respect to Mean Sea Level and proper lateral controls by Dulin & Boynton. The survey data, well location data and groundwater depth information were used in a contouring program to develop a planar representation of the water table surface to evaluate the groundwater flow direction and gradient. The representation is superimposed on Figure 2. The groundwater flow direction was slightly (approx. 11°) to the west of south under a gradient of approximately 0.0091 ft/ft.

An additional soil boring was conducted inside the building proximate to soil gas probes FVP4 on October 24 & 25, 2011 to place a groundwater monitoring well. The well installation is indicated as MW4 on Figure 3. The boring was conducted with a limited access CME 75 (because of overhead restrictions). The boring was conducted to 120 fbg and soil samples were collected at 5 foot intervals starting at 90 fbg because of its proximity to FVP4. Consistent with the RWQCB conditional approval, the boring was finished as a groundwater monitoring/VES well. A pilot hole was drilled with 8" augers followed by 10" augers to set the well. The well consists of a 4" PVC pipe with 0.020" slotted sections from 41.5 to 116.5 fbg. The boring annulus was filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand. The space above the filter pack was filled with hydrated bentonite chips to 35 fbg and the annulus was filled from 35 fbg to approximately 1 fbg with neat cement, consistent with County of Los Angeles requirements. The well installation was finished at grade with a traffic rated road vault which was concreted in place. The well was installed consistent with a permit from the County. A schedule of the well installations is included as Table 9.

The borings were logged by a Fero geologist or engineer and were visually classified in the field in accordance with the Unified Soil Classification System (USCS) or American Society for Testing and Materials (ASTM) including; moisture, consistency, texture, and soil characteristics. All of the field work conducted as part of this investigation will be conducted consistent with an extension to the Health and Safety Plan in Attachment A. Soil cuttings from the boring operations were retained onsite in properly labeled, DOT approved drums until laboratory results were available and proper treatment/disposal options for the soils were determined.

Quarterly groundwater monitoring using all of the Site wells (MW1-4) was first conducted on December 23, 2011. Initial attempts to develop MW4 with a bailer and stainless steel pump were not as successful as hoped so the first sample collected from MW4 on December 23, 2011 was very turbid. Additional development occurred on January 10, 2012 which removed considerably more fines using a swab disc and suction bailer. A sample was collected following development and additional purging and those data were reported in a January 13, 2012 monitoring report to the RWQCB. The most recent groundwater monitoring was conducted on May 3, 2012. This monitoring event is the subject of Fero's, *First Semi-Annual Groundwater Well Monitoring Report 2012, Continental Heat Treating, 10643 Norwalk Boulevard, Santa Fe Springs, California, (Site Id. No. 204GW00, SCP No. 1057)*, dated August 13, 2012.

During the sampling event, Fero gauged the elevation of groundwater in four wells on the site (MW1-MW4) using an electronic gauging device, which allowed a monitoring accuracy of 0.01 foot. At

each of the wells, the depth to groundwater measurements were made from the water surface to a survey mark etched in the casing. Well MW4 was installed on October 25, 2011 and at least one of the well tops needed to be adjusted as a result of onsite construction operations so a well survey was conducted on December 14, 2011 to tie the wellheads together to vertical and lateral controls. Elevation gauging data collected during the December 23, 2011 sampling event and for previous monitoring events are summarized in Table 8.

The groundwater elevations determined using the December 23, 2011 data were used to determine a surface which represents the local groundwater table and this surface was superimposed onto the base map (Figure 3). The soil type at the slotted section of MW4 was generally finer than the soils proximate to the screened sections of the other near surface wells which were sandier. In addition, well MW4 was installed with a limited access rig inside the building which made installation more difficult. Heaving sands at the screen depth apparently affected the efficiency of the filter pack placement thereby reducing the effectiveness of the pack and allowing more fines to the screen. As a result, groundwater flow through MW4 appears to be restricted slightly. The elevation data suggest a very slight mound at MW4. This should be reduced or explained with further well development and/or additional data from the former Exxon/Mobil site to the north. Groundwater elevation data collected on May 3, 2012 were contoured to generate elevation contours representing the water table elevation. The contours have been superimposed onto Figure 4. The resulting surface suggests a southerly flow direction under a gradient of approximately 0.0047 ft/ft.

Following gauging and prior to sampling, groundwater monitoring wells MW1-3 were purged of 25 gallons of water, the volume of which was based upon the volume of freestanding water in the wells and the observed stabilization of physical/chemical parameters, pH, color, conductivity, and temperature, had stabilized. The monitoring wells were purged with a Grundfos variable speed 120-volt AC powered two stage centrifugal Stainless Steel purge pump with discharge through 1/2 inch PVC and Teflon tubing. Groundwater was pumped from the monitoring wells at a rate of approximately 1 gallon per minute. Physical and chemical purge monitoring parameters were measured in the field at the discharge line of the pump.

Subsequent to purging each well, the pump rate was reduced to approximately 100 ml/min whereupon a representative sample of groundwater was collected from the discharge line using 40 ml. glass sample vials. Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from each well were immediately placed in an ice chest containing ice and transported for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation. The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260B. Groundwater VOC analytical results from this and from previous events are summarized in Table 10. Selected organics concentrations are included on Figure 4.

CURRENT INVESTIGATIONS

The RWQCB requested further delineation of the soil matrix and soil vapor impacts at the Site. Based on previous investigations at the Site (data summarized in Tables 4 – 7), soil matrix sampling provided very little useful data related to subsurface organics impacts because of the volatile nature of the organics and the small samples collected so, to optimize the use of financial resources, Fero limited the additional soil matrix sampling for analytical testing during this investigation. Soil matrix samples were collected for analytical testing from 5 fbg to just above the water table on five foot intervals at monitoring well MW6, only. Field operations for the probe and well installations were conducted from July 9 until July 25, 2012.

Soil Gas Probe Installation and Sampling

Consistent with discussions at our meeting of January 12, 2012 and with the Approval letter, Fero installed 4 deep probe sets (FNP19, FNP20, FNP21 and FNP22) at locations indicated on Figure 5 at depths of 5, 15, 30, 60 & 85 fbg. In addition, soil gas probes were attached at 5 and 15 fbg to the deep well and at 30, 60, & 85 fbg to the middle well (MW6m, 130 – 140 screen depth) installed along the northern property line of the Site, north of the new addition to the building as indicated on Figure 5. The probe installations were attached in this way to assure a competent sanitary seal on both well installations. The original probe depth of 90 fbg was modified in the field to accommodate the capillary fringe. Fero discussed the installations with Cardno's project manager, who was at the Former Jalk Fee site, and we agreed that the deepest probe depth should be modified to 85 fbg to improve sample recovery.

The probe borings were conducted using a CME 75 or 85 drill rig fitted with 8" hollow stem auger flights. The borings for FNP21 and FNP22 were further conducted with a limited access CME 75 because of height restrictions at those locations. Soil samples were collected from each boring at 5 foot intervals starting at 5 fbg using a California modified split spoon sampler for lithologic evaluation. A log of each of the borings is included in Attachment A. Upon reaching 85 fbg in each of these deep borings, soil gas sampling probes were installed at the appropriate depths attached to a 1" diameter PVC pipe to maintain the appropriate sampling depth while the annular space was finished. As indicated above, the probes consisted of small diameter (1/4 inch) perforated polyethylene tubing. Once installed, the annuli of the boreholes were finished as indicated above with coarse sand (#3 Monterey or equivalent) placed through the inside of the auger flights as they are being withdrawn to form an approximate 2 foot thick permeable sand pack around each of the perforated sections of the probes (to 1 foot above). The probes were sealed from each other and from the surface with hydrated bentonite and concrete. To avoid over saturation of the filter pack, the amount of water used to hydrate the bentonite seals was tailored to the thickness of the seal. The probe locations were finished at the surface with traffic rated well vaults. The well probes were installed in a like manner with the probes attached directly to the 4 inch PVC casing used for the well.

The soil gas probe installations were completed on July 23, 2012 and sampled on July 30, 2012, one week after the installations to allow the soil gas to equilibrate prior to sampling. Soil vapor sampling was conducted by connecting the 1/4 inch sampling tube exiting the ground surface at the sampling points to a glass sampling bulb fitted with Teflon stop cocks and a Viton rubber sampling port. The

bulb was connected in turn to a vacuum gauge, flow meter and portable sampling pump. Initially, both stop cocks are closed, to observe an absence of flow and a slight vacuum. This demonstrates that the sampling train on the far end of the bulb is leak tight (leak test). The first stop cock (pump end) is then opened. An absence of flow demonstrates that the sampling bulb itself is leak tight. The ground end of the bulb is then opened, and a flow of 150 ml/min is maintained for seven to ten purge volumes. During the sampling, an open container of Pentane or iso-Butylene is exposed to the sampling train. Any trace of either of these compounds detected in the sample indicates the intrusion of ambient air into the sampling train invalidating the results of the sample (leak test). The sampling bulbs will be delivered by HGS to their stationary laboratory for analysis by GCMS for EPA Method 8260B volatile organic compounds (VOCs). That analysis will also provide concentrations for the volatile fraction of aliphatic hydrocarbons. All of the samples will be analyzed by HGS within 24 hours. Soil vapor samples will be analyzed for all target compounds listed in section 3.1 of the *Interim Guidance for Active Soil Gas Investigations*. The soil vapor analytical results are presented in Table 11. Copies of the laboratory reports are included in Attachment B.

Well Installations and Sampling

Consistent with the conditional well installation approval in the Directive and with the Approval, two well clusters (MW5 and MW6) were installed at the Site. To remain consistent with the wells installed on the Jalk Fee property, Fero install all wells as single installations in separate boreholes and completed all of the wells with 4 inch PVC casings. The locations of the well clusters are indicated on Figure 4.

The wells were installed with either a CME-75 or CME-85, one set along the northern property line and one along the southern property line as indicated on Figure 4. The shallow borings at each location were conducted to 110 fbg and soil samples were collected at 5 foot intervals starting at 5 fbg for lithologic logging. A pilot hole was drilled at each location with 8" augers followed by 10" augers to set the well casings. The wells consisted of 4" PVC pipe with 0.020" slotted sections. The southern well (MW5) screen extended from 90 to 110 fbg. The northern water table well was installed with an extended screened interval from 20 to 110 fbg to allow for possible future use with a vapor extraction system. The boring annuli were filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand and the space above the filter pack was filled with 4 to 5 feet of hydrated bentonite chips and the remaining annuli were filled to 1 fbg with neat cement, consistent with County of Los Angeles requirements. The well installations were finished at grade with a traffic rated road vault which were concreted in place. The well installations were permitted through the County of Los Angeles Department of Health Services. Copies of the permits are included in Attachment E.

Consistent with the Approval, Fero collected soil samples at five foot intervals in the northern well (MW6) for analytical testing. The soil samples were collected from the boring using a California modified split spoon sampler and subsequently resampled using EPA Method 5035 sampling techniques. The samples were properly labeled, placed in plastic bags and then in a cooler at or about 4° C. At the end of the day the samples were delivered under proper chain of custody documentation to Enviro-Chem Laboratory for analysis. The samples were analyzed for EPA Method 8260b

organics. The lab data are summarized in Table 12 and a copy of the laboratory report is included in Attachment C.

In an effort to obtain consistent data with the Jalk Fee site, the screened section of the deeper well casings at each location were modified to 160 to 170 fbg. The middle depths were likewise adjusted so that the screen sections extended from 130 to 140 fbg. The annuli to approximately 1 foot above the screen at each well installation were filled with #3 sand. Approximately 5 feet each annulus above the well screen pack was sealed with hydrated bentonite chips and the annulus above the bentonite chips to 1 foot below the surface will be filled with neat cement. All of the well locations were completed with well vaults. As built of the well installations are attached on the borelogs included in Attachment A.

During installations, the middle depth wells proceeded as planned. Fero was able to collect reasonable soil samples to 140 fbg. The wells were set with the double pass installation technique described above. The deeper borings presented an issue related to sampling however. Heaving sands below approximately 140 fbg precluded collection of representative formation samples and caused the first of the deep wells (MW5) to be installed after a separate third pass. Because of the difficulties with this installation, Fero decided to install the northern (MW6) deep well with a single pass using plugged 10 inch augers and to install a casing with a pre-packed filter from 160 to 170 fbg. This allowed for the installation of a very effective monitoring well however, it did not allow for lithologic sampling below 140 feet. However, based on the heaving sands below 140 feet, the soil type consisted of primarily sands with some gravel.

The borings were logged by a Fero geologist or engineer who visually classified the soils in the field in accordance with the Unified Soil Classification System (USCS) or American Society for Testing and Materials (ASTM) including; moisture, consistency, texture, and soil characteristics. Borelogs of the well installations are attached hereto in Attachment A. All of the field work conducted as part of this investigation was conducted consistent with a Health and Safety Plan, a copy of which is attached in Attachment F. Soil cuttings from the boring operations were retained onsite in properly labeled, DOT approved roll off dumpsters and wash water generated during auger washing was retained onsite in DOT approved drums until laboratory results were available and proper treatment/disposal options for the soil and water were determined. The soils and water have been removed from the Site for offsite treatment.

The monitoring wells were developed during the three days of July 30, 2012 to August 1, 2012. Fero retained BC2 Environmental to develop the wells with a well swab, suction bailer and pump until the wells were free of fines and the turbidity was less than 10 ntu. Consistent with the Approval, Fero retained Dulin and Boynton to survey the new well locations on August 1, 2012. The survey data are provided in Attachment F. The wells were gauged on August 10, 2012. The gauging data are provided in Table 8.

Groundwater sampling will be conducted consistent with CHTs semiannual monitoring schedule and results of the sampling will be provided in future reports. The next sampling effort will be conducted in October at the same time as Cardno on the adjacent Former Jalk Fee Property. The monitoring

report for this upcoming October sampling will include elevation gauging data, flow contours, purge data, water quality data, iso-concentration contours, etc. consistent with prior submittals.

Indoor Vapor Sampling

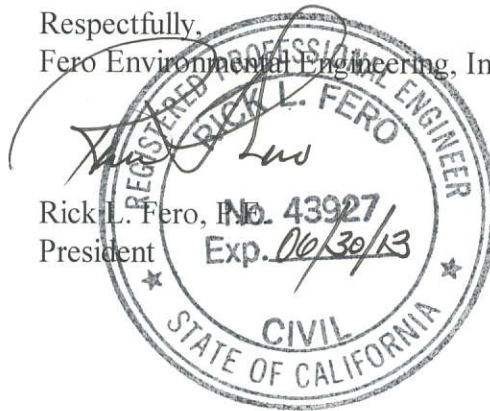
To be conducted and reported on in the future consistent with the Approval.

Should you have any questions regarding the content of this site assessment work plan, please do not hesitate to call the undersigned at (714) 256-2737.

Respectfully,

Fero Environmental Engineering, Inc.

Rick L. Fero, Inc.
President



RLF: slf
[758subinvwp412a]

Table 1
 Probe Vacuum
Continental Heat Treating, Inc.
 10643 South Norwalk Boulevard, Santa Monica
 March 2, 2004

Sample ID	Depth (ft.)	Vacuum (in. H ₂ O)
FP1	5	1.0
	15	1.1
	30	0.8
	45	0.6
	60	0.4
FP2	5	2.5
	15	2.5
	30	2.4
	45	1.7
	60	1.4

Table 2
Soil Gas Concentrations
Continental Heat Treating, Inc.
10643 South Norwalk Boulevard, Santa Fe Springs
March 16, 2004 & August 6, 2004
(µg/L)

Sample ID	Depth (ft)	Sampling Date	PCE	TCE	1,2-DCE	VC	HC
FP1	5	3/16/04	2,718	157	107	16	6,300
		8/06/04	640	120	32	ND	15
	15	3/16/04	2,351	136	ND	29	7,700
		8/06/04	2,602	251	328	45	738
	30	3/16/04	1,335	43	16	46	7,500
		8/06/04	2,792	422	445	225	4,345
	45	3/16/04	1,517	54	41	57	8,500
		8/06/04	1,831	235	428	217	6,516
	60	3/16/04	934	43	33	63	8,000
		8/06/04	1,441	194	309	331	15,873
	5	3/16/04	154	32	12	11	4,000
		8/06/04	7.7	1.4	ND	ND	ND
FP2	15(eq.)	3/16/04	3.9	ND	ND	ND	23
		8/06/04	1,881	142	ND	1.4	126
	30	3/16/04	972	80	54	21	12,000
		8/06/04	96	29	57	24	1,226
	45	3/16/04	1,241	48	14	42	8,500
		8/06/04	1,439	159	200	201	9,218
	60	3/16/04	660	49	22	12	12,000
		8/06/04	985	112	84	132	14,888

ND = not detected at laboratory detection limit.

Table 3

Hydro-Geo Spectrum Data

TABLE 6

LOCATION- depth(ft)	Date Sampled	1,2-DCE µg/L	TCE µg/L	PCE µg/L	HC µg/L	1,1-DCE µg/L	VC µg/L	Chloroform µg/L	VOA µg/L
FP1-5	08-Nov-11	24	175	1771	N	0.3	N	1.7	N
FP1-15	08-Nov-11	17	96	1728	N	0.4	N	1.5	N
FP1-30	08-Nov-11	27	81	1871	274	0.4	N	1	N
FP1-45	08-Nov-11	224	105	1384	1065	3.2	N	0.4	N
FP1-60	08-Nov-11	170	101	1737	6715	21	N	N	N
FVP1-5	05-Nov-11	73	107	872	3347	13	N	N	N
FVP1-15	05-Nov-11	1.4	59	427	N	N	N	N	N
FVP1-30	05-Nov-11	233	109	669	7375	32	N	N	N
FVP1-60	05-Nov-11	318	89	768	9089	39	N	N	N
FVP1-90	05-Nov-11	91	135	1143	3520	14	N	N	N
FP2-5	08-Nov-11	1.8	18	534	N	N	N	1.1	N
FP2-15	08-Nov-11	9.7	54	1005	N	N	N	1.5	N
FP2-30	08-Nov-11	N	22	1288	152	N	N	N	N
FP2-45	08-Nov-11	99	80	1197	1138	7	N	N	N
FP2-60	08-Nov-11	62	75	1020	5049	11	N	N	N
FVP2-5	05-Nov-11	4.4	100	3905	6201	N	27	N	N
FVP2-15	05-Nov-11	5.5	84	12742	7166	N	16	N	N
FVP2-30	05-Nov-11	6.7	90	7479	6910	N	24	N	N
FVP2-60	05-Nov-11	10	71	2687	8796	N	40	N	N
FVP2-90	05-Nov-11	8.5	51	2122	6392	N	35	N	N
FVP3-5	05-Nov-11	2.2	1.5	25	N	N	N	N	N
FVP3-15	05-Nov-11	513	149	867	590	1.2	N	N	N
FVP3-30	05-Nov-11	1130	186	1512	3540	9.8	N	N	N
FVP3-60	05-Nov-11	755	124	898	4837	20	N	N	N
FVP3-90	05-Nov-11	318	63	1033	7830	31	N	N	N
FVP4-5	05-Nov-11	16	70	430	N	0.4	N	1.4	N
FVP4-15	05-Nov-11	15	76	1381	N	N	N	1.7	N
FVP4-30	05-Nov-11	34	41	576	3593	6.1	N	0.6	N
FVP4-60	05-Nov-11	21	48	336	40386	N	143	N	N
FVP4-90	05-Nov-11	27	45	346	31636	N	121	N	N
FVP5-5 NF	04-Nov-11								N
FVP5-15 NF	04-Nov-11								N
FVP6-5 LF	04-Nov-11	N	0.5	88	N	N	N	N	N
FVP6-15	04-Nov-11	N	6.2	1420	N	N	N	N	N
FVP7-5	04-Nov-11	9	27	152	N	N	N	N	N
FVP7-15	04-Nov-11	3.9	24	372	N	N	N	N	N
FVP8-5	04-Nov-11	15	139	696	N	N	N	N	N
FVP8-15	04-Nov-11	1.6	70	1587	N	N	N	N	N
FVP9-5	04-Nov-11	N	3	92	N	N	N	N	N
FVP9-15	04-Nov-11	N	N	16	N	N	N	N	N
FVP10-5	04-Nov-11	76	140	1889	N	N	N	N	N
FVP10-15	04-Nov-11	103	226	3077	N	N	N	N	N
FVP13-5	04-Nov-11	2.9	62	1510	N	N	N	N	N
FVP13-15	04-Nov-11	18	181	2741	N	N	N	N	N
FVP14-5 NF	04-Nov-11								
FVP14-15	04-Nov-11	2.7	17	5876	N	N	N	N	N
FVP15-5	04-Nov-11	N	3.2	249	N	N	N	N	N
FVP15-15	04-Nov-11	N	57	5163	N	N	N	N	N
FVP16-5	04-Nov-11	0.4	37	3316	N	0.5	N	N	N
FVP16-15	04-Nov-11	4.4	82	8202	N	N	N	N	N
FVP17-5	04-Nov-11	21	120	1426	N	N	N	N	N
FVP17-15	04-Nov-11	96	342	9160	N	N	N	N	N
FVP18-5	04-Nov-11	81	245	723	N	N	N	N	N
FVP18-15	04-Nov-11	48	260	1798	407	N	N	N	N
FVP19-5	09-Nov-11	N	0.1	15	N	N	N	N	N
FVP19-15 leak	09-Nov-11	N	0.7	16	N	N	N	N	N
FVP20-5	04-Nov-11	N	N	5.6	N	N	N	N	N
FVP20-15	04-Nov-11	N	1.4	186	N	N	N	N	N

TCE = Trichloroethylene
PCE = Tetrachloroethylene
DCE = Dichloroethylene

VOC = Volatile Organic Compounds (other)

N = < 0.5 µg/L
NF = no flow
LF = low flow

LOCATION- depth (ft)	Date Sampled	1,1-DCE µg/L	1,2-DCE µg/L	TCE µg/L	PCE µg/L	HC µg/L	VOC µg/L
FNP19-5	30-Jul-12	7.8	6.4	11	100	N	N
FNP19-15	30-Jul-12	1.7	5.7	29	465	1523	N
FNP19-30	30-Jul-12	3.2	11	8.2	491	1568	N
FNP19-60	30-Jul-12	18	123	32	121	5749	N
FNP19-85	30-Jul-12	46	6.2	7	92	8580	N
FNP20-5	30-Jul-12	18	2.9	7.4	6.1	9833	N
FNP20-15	30-Jul-12	N	N	0.8	22	223	N
FNP20-30	30-Jul-12	1	N	2.4	6.3	630	N
FNP20-60	30-Jul-12	21	12	29	7.7	8146	N
FNP20-85	30-Jul-12	49	30	4.4	7.4	13724	N
FNP21-5	30-Jul-12	2.3	N	8.2	74	2169	N
FNP21-15	30-Jul-12	4.1	7.4	7.5	170	2747	N
FNP21-30	30-Jul-12	2.2	1.4	10	152	2365	N
FNP21-60	30-Jul-12	15	9.6	43	88	8398	N
FNP21-85	30-Jul-12	27	39	12	75	9256	N
FNP22-5	30-Jul-12	3.8	14	10	162	1948	N
FNP22-15	30-Jul-12	4.5	11	25	858	N	N
FNP22-30	30-Jul-12	3	5.9	19	620	N	N
FNP22-60	30-Jul-12	0.8	0.9	N	5.9	277	N
FNP22-85	30-Jul-12	46	51	8.4	166	10829	N
MW6-5	30-Jul-12	N	45	234	7309	N	N
MW6-15	30-Jul-12	N	80	255	7172	N	N
MW6-30	30-Jul-12	4.6	130	134	2838	2053	N
MW6-60	30-Jul-12	12	236	95	962	3282	N
MW6-85	30-Jul-12	18	535	64	342	5756	N
VP5-5	30-Jul-12	N	N	N	N	N	N
VP5-15	30-Jul-12	N	N	N	N	N	N

PCE = Tetrachloroethylene

TCE = Trichloroethylene

DCE = Dichloroethylene

HC = Hydrocarbons

VOC = Volatile Organic Compound (other)

N = < 0.5 µg/L

Table 4
Soil Sampling Analytical Results - VOCs
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 21 - 26, 2011
(mg/Kg)

Sample ID/Depth	1,1-DCP	cis 1,2-DCE	PCE	TCE	n-ButylB	sec-ButylB	Naphth	n-PropylB	1,1,2,2-TCA
FVP1-5	0.005	nd	0.126	0.024	nd	nd	nd	nd	nd
FVP1-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP1-30	nd	0.012	0.158	0.024	nd	nd	nd	nd	nd
FVP1-60	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP1-90	0.027	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-5	nd	nd	0.116	nd	nd	nd	nd	nd	nd
FVP2-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-30	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-60	nd	nd	0.006	nd	nd	nd	nd	nd	nd
FVP2-90	nd	nd	0.008	nd	nd	nd	nd	nd	nd
FVP3-5	nd	nd	0.076	nd	nd	nd	nd	nd	nd
FVP3-15	nd	nd	0.027	0.006	nd	nd	nd	nd	nd
FVP3-30	nd	nd	0.281	0.051	nd	nd	nd	nd	nd
FVP3-60	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP3-90	nd	nd	nd	nd	0.028	0.025	0.068	0.047	0.031
FVP4-5	nd	nd	0.072	0.007	nd	nd	nd	nd	nd
FVP4-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP4-30	nd	0.009	0.067	0.006	nd	nd	nd	nd	nd
FVP4-60	nd	0.213	0.132	0.044	nd	nd	nd	nd	nd
FVP4-90	nd	nd	nd	nd	nd	nd	nd	nd	nd

DCP – Dichloropropene, DCE=Dichloroethylene, PCE=Tetrachloroethylene, TCE=Trichloroethylene, B – Benzene, Naphth – Naphthalene, TCA=Trichloroethane

Table 5
Soil Sampling Analytical Results - TPHcc
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 19 - 27, 2011
(mg/Kg)

Sample ID/Depth	Gasoline (C4-C10)	Diesel (C11-C22)	Oil (C23-C35)
FVP1-5	nd	nd	nd
FVP1-15	nd	nd	nd
FVP1-30	nd	nd	nd
FVP1-60	nd	nd	nd
FVP1-90	23.4	75.0	92.3
FVP2-5	nd	nd	nd
FVP2-15	nd	nd	nd
FVP2-30	nd	nd	nd
FVP2-60	nd	nd	nd
FVP2-90	nd	nd	nd
FVP3-5	nd	nd	nd
FVP3-15	nd	nd	nd
FVP3-30	nd	nd	nd
FVP3-60	nd	nd	nd
FVP3-90	nd	nd	nd
FVP4-5	nd	nd	nd
FVP4-15	nd	nd	nd
FVP4-30	nd	nd	nd
FVP4-60	nd	nd	nd
FVP4-90	nd	nd	nd
FVP7-5	nd	nd	nd
FVP8-15	nd	nd	nd
FVP10-30	nd	nd	nd
FVP13-60	nd	nd	nd

Table 6
Soil Metals Concentrations
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 27, 2011
(mg/Kg)

Sample Id.	Ba	Cr	Cr+6	Co	Cu	Pb	Ni	V	Zn
EPA-RSLs (ind)	190,000	150,000	5.6	23	3,100	400	3,800	390	2,300
FVP11-3'	99.3	17.1	nd	6.22	15.4	3.68	10.3	29.0	43.5
FVP12-3'	88.4	17.2	nd	6.78	12.0	3.37	11.4	31.7	38.4
PVP1a-3'	96.7	15.8	nd	6.01	12.1	3.10	10.2	28.4	37.7

Ba - Barium **Cr**- Chromium **Co**- Cobalt **Cu**- Copper **Ni**- Nickel **Pb**- Lead **V**- Vanadium **Zn**- Zinc

ND- Not detected at laboratory detection limit RSL = Regional Screening Level – industrial, formerly PRG, EPA Region 9

Table 7
Soil Analytical Results
Continental Heat Treating, 10643 Norwalk Boulevard, Santa Fe Springs
August 3-5, 2010

Sample Point/ Depth	Benzene (mg/Kg)	sec-butyl Benzene (mg/Kg)	cis-1,2-DCE (mg/Kg)	n-propyl Benzene (mg/Kg)	PCE (mg/Kg)	TCE (mg/Kg)
MW1-5'	ND	ND	ND	ND	0.021	0.005
MW1-10'	ND	ND	ND	ND	0.028	0.009
MW1-15'	ND	ND	ND	ND	0.003	ND
MW1-20'	ND	ND	ND	ND	0.017	0.005
MW1-25'	ND	ND	ND	ND	0.078	0.013
MW1-30'	ND	ND	0.022	ND	0.119	0.028
MW1-35'	ND	ND	0.068	ND	0.040	0.020
MW1-40'	ND	ND	ND	ND	ND	ND
MW1-45'	ND	ND	ND	ND	ND	ND
MW1-50'	ND	ND	ND	ND	ND	ND
MW1-55'	ND	ND	0.004	ND	ND	ND
MW1-60'	ND	ND	ND	ND	ND	ND
MW1-65'	ND	ND	ND	ND	ND	ND
MW1-70'	ND	ND	ND	ND	ND	ND
MW1-75'	ND	ND	ND	ND	ND	ND
MW1-80'	ND	ND	ND	ND	ND	ND
MW1-85'	ND	0.008	ND	ND	ND	ND
MW1-90'	ND	0.003	0.002	ND	ND	ND
MW1-95'	ND	ND	0.009	ND	ND	ND
MW2-5'	ND	ND	ND	ND	0.433	0.009
MW2-10'	ND	ND	ND	ND	0.665	0.009
MW2-15'	ND	ND	ND	ND	2.31	0.014
MW2-20'	ND	ND	0.007	ND	1.54	0.015
MW2-25'	ND	ND	0.012	ND	1.85	0.018
MW2-30'	ND	ND	0.015	ND	1.26	0.011
MW2-35'	ND	ND	0.096	ND	3.25	0.038
MW2-40'	ND	ND	ND	ND	0.003	ND
MW2-45'	0.005	ND	0.287	ND	2.07	0.058
MW2-50'	ND	ND	ND	ND	0.007	ND
MW2-55'	ND	ND	0.003	ND	0.010	ND
MW2-60'	ND	ND	ND	ND	0.008	ND
MW2-65'	ND	ND	0.005	ND	0.015	ND
MW2-70'	ND	ND	0.006	ND	0.009	ND
MW2-75'	ND	ND	0.040	ND	0.051	ND
MW2-80'	ND	ND	ND	ND	0.003	ND
MW2-85'	ND	ND	ND	ND	ND	ND
MW2-90'	ND	ND	0.003	ND	0.002	ND
MW2-95'	ND	ND	0.004	ND	0.002	ND
MW3-5'	ND	ND	ND	ND	ND	ND
MW3-10'	ND	ND	ND	ND	0.004	ND
MW3-15'	ND	ND	ND	ND	0.005	ND
MW3-20'	ND	ND	ND	ND	ND	ND
MW3-25'	ND	ND	ND	ND	ND	ND
MW3-30'	ND	ND	ND	ND	ND	ND
MW3-35'	ND	ND	ND	ND	ND	ND
MW3-40'	ND	ND	0.002	ND	0.020	0.003
MW3-45'	ND	ND	0.007	ND	0.017	0.007
MW3-50'	ND	ND	ND	ND	0.015	0.009
MW3-55'	ND	ND	0.003	ND	0.005	0.007
MW3-60'	ND	ND	0.029	ND	0.031	0.072
MW3-65'	ND	ND	ND	ND	ND	ND
MW3-70'	ND	ND	ND	ND	ND	ND
MW3-75'	ND	ND	0.033	ND	ND	0.004
MW3-80'	ND	ND	ND	0.002	ND	ND
MW3-85'	ND	ND	ND	0.025	ND	ND
MW3-90'	ND	ND	ND	ND	ND	ND
MW3-95'	ND	ND	ND	ND	ND	ND

ND = Not Detected at laboratory detection limits, DCE = Dichloroethene, PCE = Tetrachloroethene, TCE = Trichloroethene.

Table 8
Summary of Groundwater Elevation
Continental Heat Treating
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)

Well Number	Date	TOC Elevation (ft MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft MSL)
MW1	3/29/11	137.07	97.16	39.91
	6/15/11		94.50	42.57
	9/20/11		91.81	45.26
	12/23/11	137.08	90.13	46.95
	5/3/12		88.46	48.62
	8/10/12		88.71	48.37
MW2	3/29/11	137.43	96.45	40.98
	6/15/11		93.74	43.69
	9/20/11		91.06	46.37
	12/23/11	138.04	90.05	47.99
	5/3/12		88.43	49.61
	8/10/12		88.65	49.39
MW3	3/29/11	137.71	96.42	41.29
	6/15/11		93.94	43.77
	9/20/11		91.12	46.59
	12/23/11	137.03	89.43	47.60
	5/3/12		87.69	49.34
	8/10/12		87.80	49.23
MW4	12/23/11	137.55	89.43	48.12
	5/3/12		87.69	49.86
	8/10/12		86.37	51.18
MW5s	8/10/12	137.49	88.85	48.64
MW5m	8/10/12	137.37	89.49	47.88
MW5d	8/10/12	137.54	88.79	48.75
MW6s	8/10/12	137.84	88.41	49.43
MW6m	8/10/12	137.95	88.08	49.87
MW6d	8/10/12	138.01	87.26	50.75

Table 9
Well and Probe Schedule
Continental Heat Treat

[illegible]

Table 10
Summary of Groundwater Analyses
Continental Heat Treating
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)
(µg/L)
(DL – 0.5 µg/L)

Well	Date	Ben	Chl	1,4- DCB	1,1- DCA	cis-1,2- DCE	t-1,2- DCE	1,2- DCA	1,1- DCE	HCB	NAP	1,1,2,2- TCA	PCE	1,2,3- TCB	1,2,4- TCB	TCE	TFM	VC
MW1	8/20/10	ND	0.97	ND	17.3	12.2	ND	113	224	ND	ND	ND	184	ND	ND	154	2.79	5.96
	3/29/11	ND	1.02	ND	17.7	600	14.9	ND	184	ND	ND	ND	210	ND	ND	170	5.54	27.8
	6/15/11	ND	1.50	ND	14.1	85.1	2.06	ND	117	ND	ND	ND	228	ND	ND	167	5.51	3.13
	9/23/11	ND	4.20	ND	25.3	118	2.14	ND	191	ND	ND	ND	182	ND	ND	164	13.2	3.50
	12/23/11	ND	3.33	ND	16.3	147	1.92	2.66	85.3	ND	1.90	ND	201	ND	ND	164	6.74	1.51
	5/3/12	ND	6.15	ND	32.2	433	6.80	4.96	191	ND	ND	ND	196	ND	ND	224	13.6	10.0
MW2	8/20/10	ND	1.71	0.78	21.8	59.6	0.76	5.43	126	1.14	2.47	0.92	235	2.72	1.24	178	9.49	0.89
	3/29/11	ND	1.89	ND	22.8	55.1	ND	2.74	161	1.14	ND	ND	214	ND	ND	158	10.0	0.53
	6/15/11	ND	3.07	ND	24.2	85.3	1.53	4.83	149	ND	ND	ND	338	ND	ND	172	13.1	3.09
	9/23/11	ND	5.08	ND	28.1	100	2.09	5.88	177	ND	ND	ND	245	ND	ND	161	21.3	4.01
	12/23/11	ND	3.66	ND	18.3	53.0	0.65	2.69	77.6	NC	ND	ND	252	ND	ND	148	10/6	ND
	5/3/12	ND	8.72	ND	41.9	92.8	0.54	5.21	194	ND	ND	ND	177	ND	ND	163	24.2	ND
MW3	8/20/10	4.50	ND	ND	6.19	38.9	4.13	ND	57.1	1.18	2.43	ND	56.9	3.26	1.29	160	1.22	ND
	3/29/11	3.17	ND	ND	11.7	49.0	4.41	ND	185	ND	ND	ND	82.2	ND	ND	200	4.75	3.78
	6/15/11	1.01	0.91	ND	12.1	41.8	11.2	ND	124	ND	ND	ND	151	ND	ND	149	5.26	1.71
	9/23/11	ND	1.30	ND	14.3	43.6	13.6	ND	146	ND	ND	ND	120	ND	ND	130	7.45	1.32
	12/23/11	ND	1.61	ND	9.57	32.6	8.33	ND	62.1	ND	ND	ND	143	ND	ND	133	5.33	ND
	5/3/12	ND	5.81	ND	25.4	77.8	15.7	0.65	190	ND	ND	ND	137	ND	ND	165	13.3	1.35
MW4	12/23/11	ND	0.54	ND	3.61	172	5.47	ND	16.9	ND	3.05	ND	36.0	ND	ND	21.9	ND	8.20
	1/10/12	ND	ND	ND	5.08	62.2	2.88	ND	25.6	ND	3.22	ND	70.1	ND	ND	47.5	ND	3.51
	5/3/12	ND	2.29	ND	20.9	284	9.63	0.54	148	ND	ND	ND	93.0	ND	ND	90.3	3.51	18.5

DL – detection limit, ND = Not Detected at DL , Ben - Benzene, Chl - Chloroform, DCB - Dichlorobenzene, DCA – Dichloroethane, DCE – Dichloroethene, HCB – Hexachlorobutadiene, NAP – Naphthalene, TCA – Tetrachloroethane, PCE – Tetrachloroethene, TCB – Trichlorobenzene, TCE – Trichloroethene, TFM – Trichlorofluoromethane , VC – Vinyl Chloride

Table 10
(cont.)
Summary of Groundwater Analyses
Continental Heat Treating
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)
(µg/L)
(DL – 0.5 µg/L)

Well	Date	Toluene	Sec- BBen	Ethyl Ben	IPB	4 IPT	n PBen	1,2,4- TMB	Xylene	111TCA
MW1	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	1.14
MW3	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW4	12/23/11	1.50	3.72	1.42	7.02	0.65	7.03	ND	ND	
	1/10/12	ND	2.71	1.61	6.04	ND	6.30	1.31	1.20	
	5/3/12	ND	2.18	1.41	4.14	ND	3.17	ND	ND	ND

DL – detection limit, ND = Not Detected at DL , sec-BBen – sec-Butylbenzene, EthylBen – Ethylbenzene, IPB - Isopropylbenzene, 4 IPT – 4- Isopropyltoluene, n PBen – n-Propylbenzene

Table 11
Soil Gas Concentrations
Continental Heat Treating, Inc.
10643 South Norwalk Boulevard, Santa Fe Springs
July 30, 2012
(µg/L)

Sample ID	Depth (ft)	Sampling Date	PCE	TCE	1,2-DCE	1,1-DCE	HC
FNP19	5	7/30/12	100	11	6.4	7.8	ND
	15	7/30/12	465	29	5.7	1.7	1,523
	30	7/30/12	491	8.2	11	3.2	1,568
	60	7/30/12	121	32	123	18	5,749
	85	7/30/12	92	7	6.2	46	8,580
FNP20	5	7/30/12	6.1	7.4	2.9	18	9,833
	15	7/30/12	22	0.8	ND	ND	223
	30	7/30/12	6.3	2.4	ND	1	630
	60	7/30/12	7.7	29	12	21	8,146
	85	7/30/12	7.4	4.4	30	49	13,724
FNP21	5	7/30/12	74	8.2	ND	2.3	2,169
	15	7/30/12	170	7.5	7.4	4.1	2,747
	30	7/30/12	152	10	1.4	2.2	2,365
	60	7/30/12	88	43	9.6	15	8,398
	85	7/30/12	75	12	39	27	9,256
FNP22	5	7/30/12	162	10	14	3.8	1,948
	15	7/30/12	858	25	11	4.5	ND
	30	7/30/12	620	19	5.9	3	ND
	60	7/30/12	5.9	ND	0.9	0.8	277
	85	7/30/12	166	8.4	51	46	10,829

ND = not detected at laboratory detection limit.

Table 11
(cont.)
 Soil Gas Concentrations
Continental Heat Treating, Inc.
 10643 South Norwalk Boulevard, Santa Fe Springs
 July 30, 2012
 (µg/L)

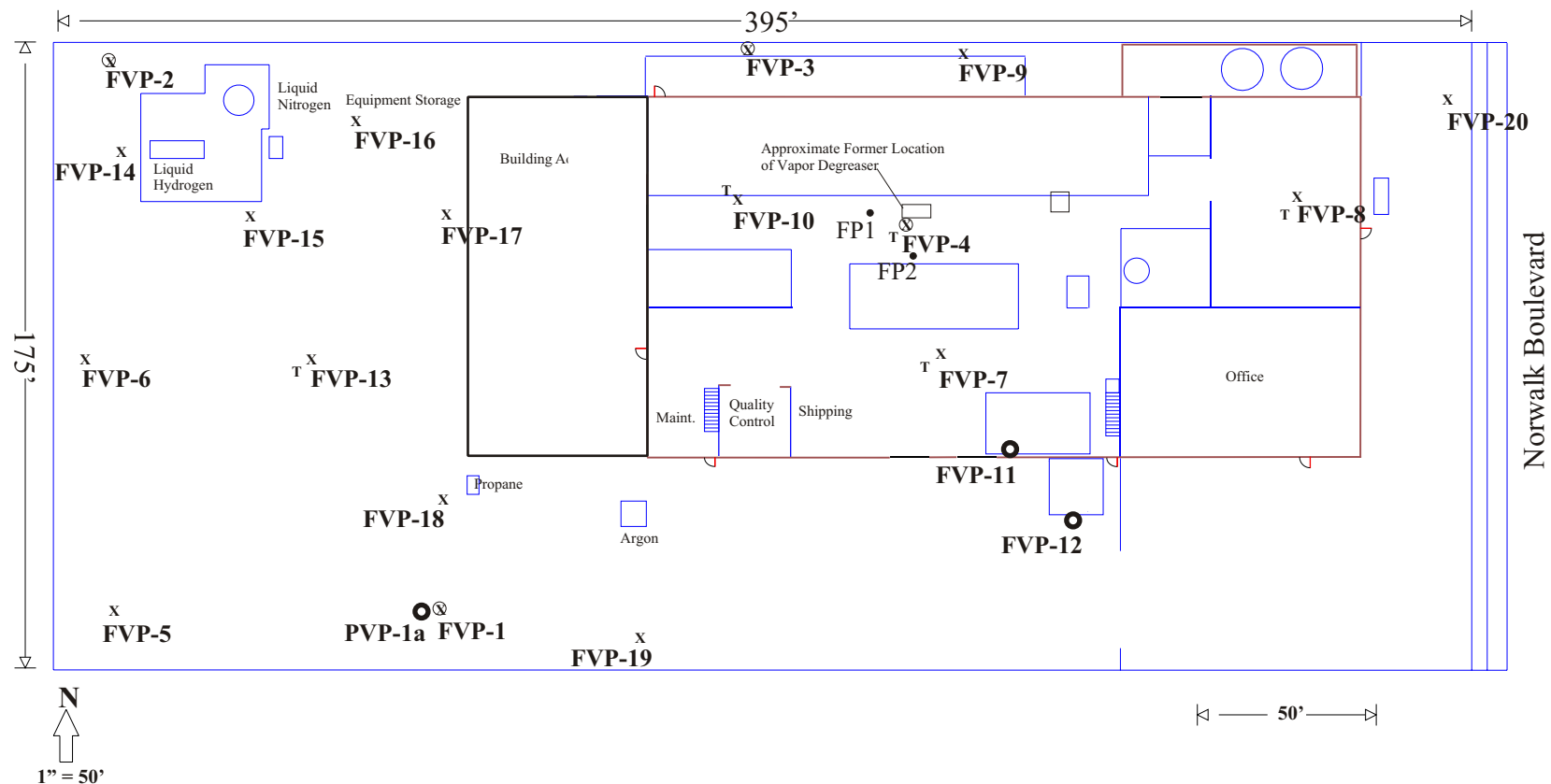
Sample ID	Depth (ft)	Sampling Date	PCE	TCE	1,2-DCE	1,1-DCE	HC
MW6	5	7/30/12	7,309	234	45	ND	ND
	15	7/30/12	7,172	255	80	ND	ND
	30	7/30/12	2,838	134	130	4.6	2,053
	60	7/30/12	962	95	236	12	3,282
	85	7/30/12	342	64	535	18	5,756
VP5	5	7/30/12	ND	ND	ND	ND	ND
	15	7/30/12	ND	ND	ND	ND	ND

ND = not detected at laboratory detection limit.

Table 12
Soil Sampling Analytical Results - VOCs
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
July 20, 2012
(mg/Kg)

Sample ID	Depth	cis 1,2-DCE	PCE	TCE	Benzene
MW6m	5	nd	0.295	nd	nd
	10	0.027	1.30	0.082	nd
	15	0.022	1.80	0.057	nd
	20	0.026	1.59	0.074	nd
	25	0.136	2.60	0.170	nd
	30	0.185	3.51	0.158	0.007
	35	0.120	2.51	0.206	0.013
	40	0.049	0.097	0.010	nd
	45	0.013	0.016	nd	nd
	50	0.005	0.014	nd	nd
	55	0.031	0.086	0.007	nd
	60	nd	0.011	nd	nd
	65	0.079	0.041	0.006	nd
	70	0.216	0.115	0.180	nd
	75	0.117	0.193	0.030	nd
	80	0.008	0.053	nd	nd
	85	nd	0.027	nd	nd
	90	0.126	0.041	0.035	nd

DCE - Dichloroethylene, PCE - Tetrachloroethylene, TCE - Trichloroethylene
nd – Non-detect @ 0.005 mg/Kg



Legend

- Concentrations in $\mu\text{g/L}$
- x - Gas Sampling Probes (5 & 15 ft)
 - ⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)
 - - Former Gas Sampling Probes (5, 15, 45, 60 ft)
 - FP1
 - - Soil Sampling Locations, metals only @ 3'
 - T - Soil Sampling Locations, TPHcc @ 5'

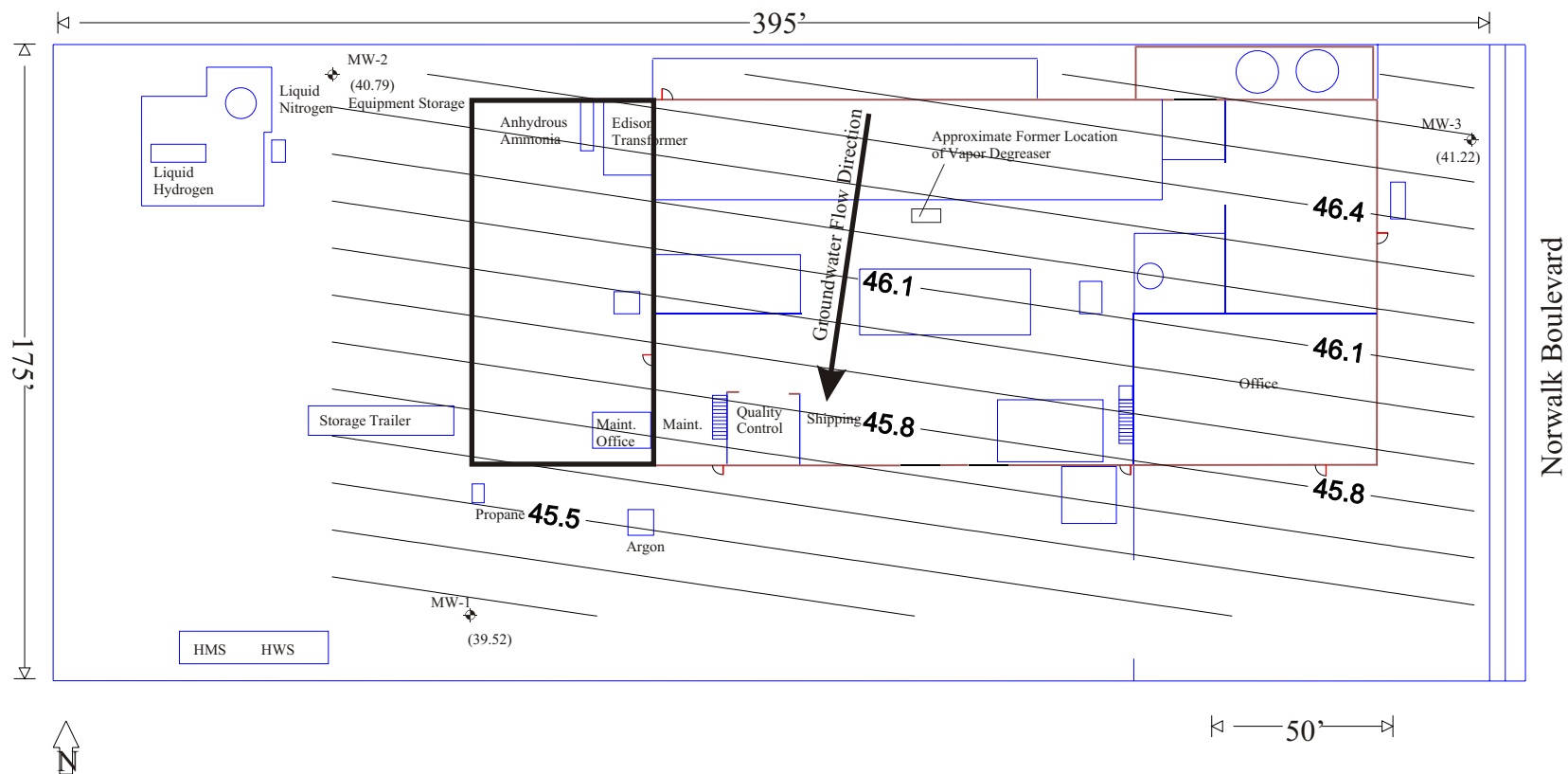


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Sampling Locations Continental Heat Treating, Inc. (10/11)

10643 South Norwalk Boulevard
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services



Legend

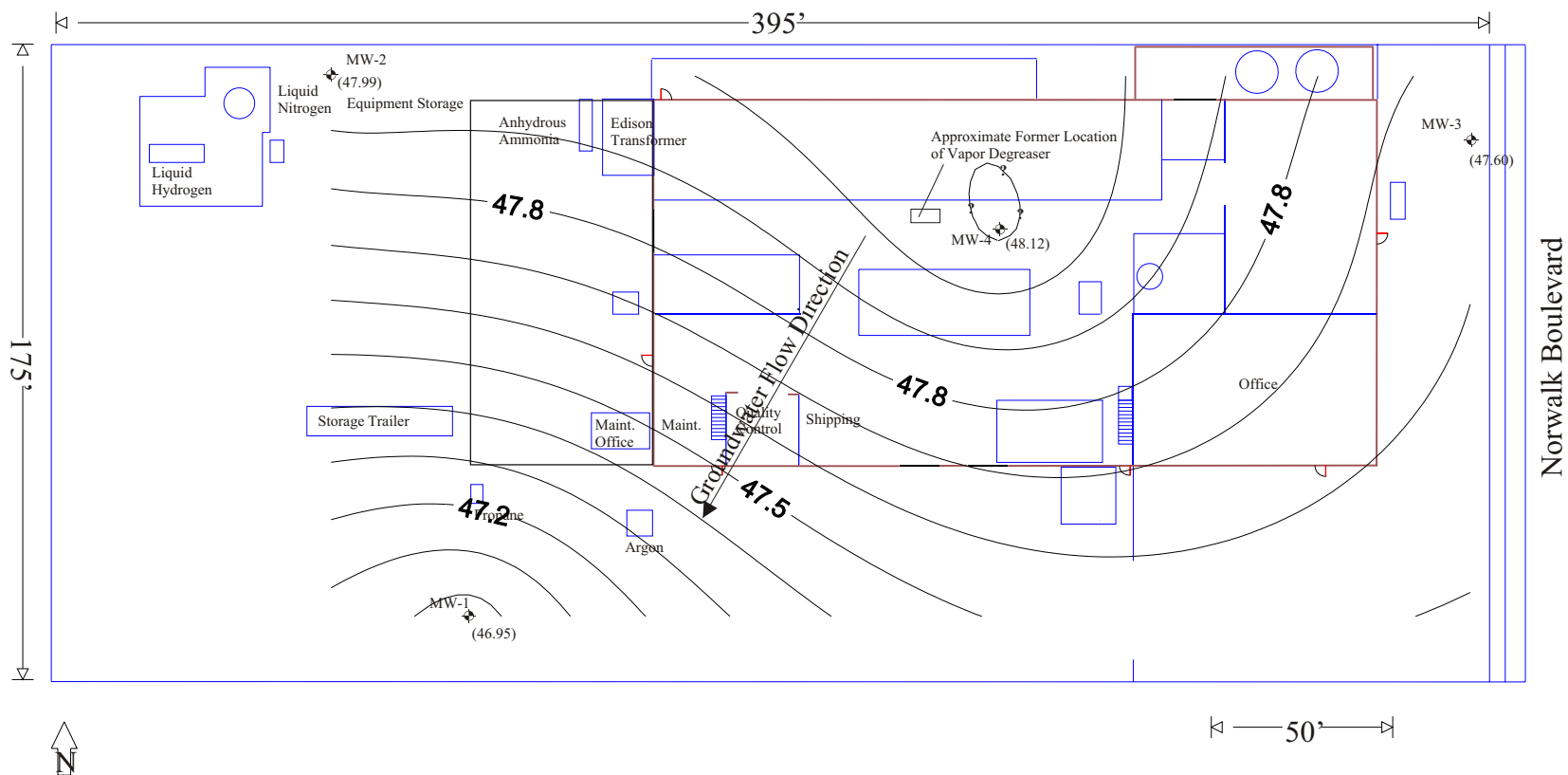
- ◆ - Groundwater Monitoring Well
- (39.52) - Groundwater Elevation in Feet MSL



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**Groundwater Flow Contours
Water Table Wells
Continental Heat Treating, Inc.**
(8/20/10)
10643 South Norwalk Boulevard
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services



Legend

✦ - Groundwater Monitoring Well

(46.95) - Elevation Feet MSL

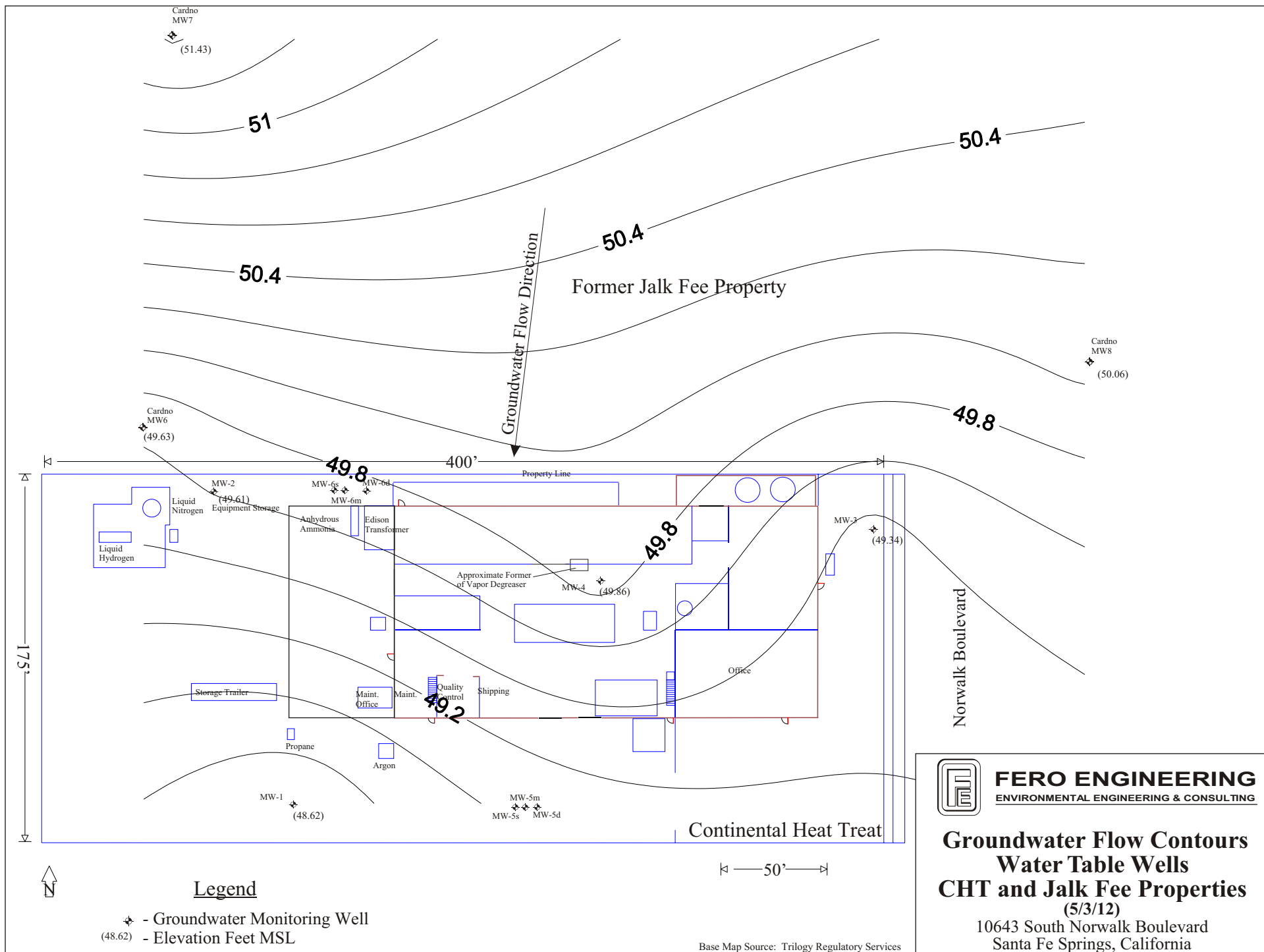


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**Groundwater Flow Contours
Water Table Wells
Continental Heat Treating, Inc.**
(12/23/11)

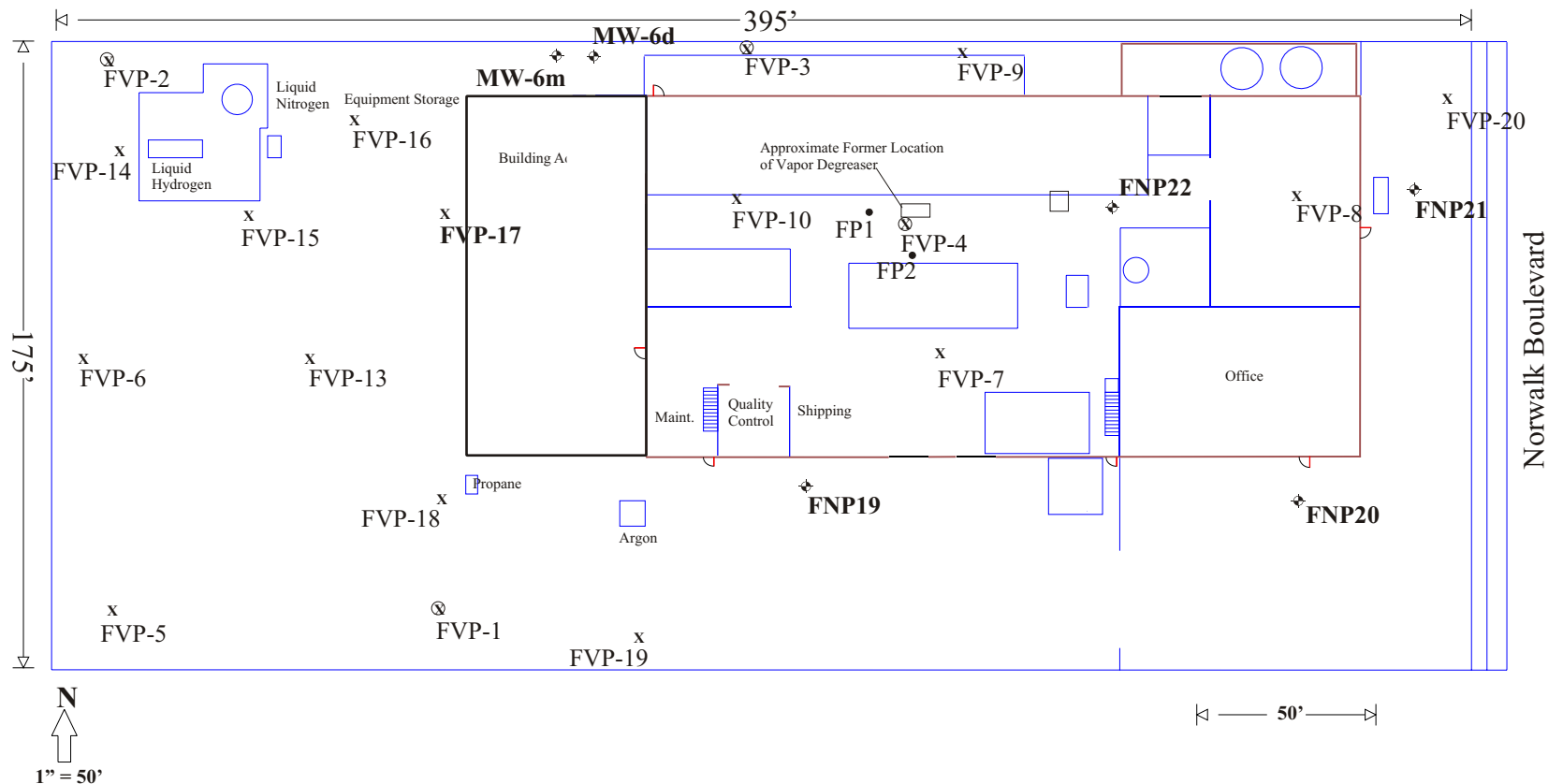
10643 South Norwalk Boulevard
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services



[758gwele5312]

Figure 4



Legend

- x - Former Gas Sampling Probes (5 & 15 ft)
- FVP-14
- ⊗ - Former Gas Sampling Probes (5, 15, 30, 60 & 90 ft)
- FVP-1
- - Former Gas Sampling Probes (5, 15, 45, 60 ft)
- FP1
- ◆ - Gas Sampling Probes (5, 15, 30, 60, 85 ft) Added 7/2012
- FNP19**

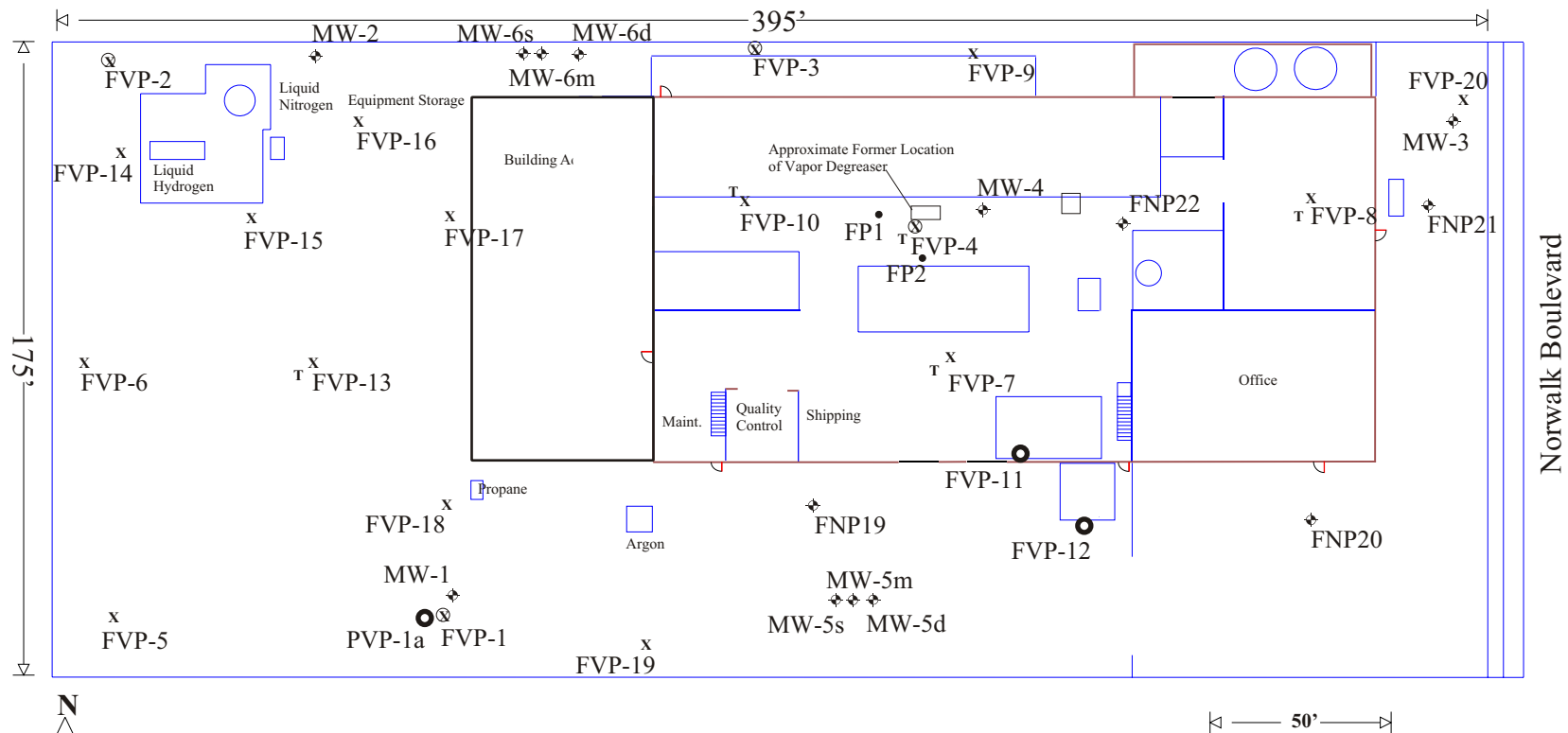


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Soil Gas Sampling Locations Continental Heat Treating, Inc. (8/12)

10643 South Norwalk Boulevard
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services



Legend

- X - Gas Sampling Probes (5 & 15 ft)
- FVP-14
- ⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)
- FVP-1
- - Former Gas Sampling Probes (5, 15, 45, 60 ft)
- FP1
- - Soil Sampling Locations, metals only @ 3'
- T - Soil Sampling Locations, TPHcc @ 5'
- ✦
- FNP19 - Gas Sampling Probes (5, 15, 30, 60 & 85 ft)
- MW-1
- ✦ - Groundwater Monitoring Wells



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Sampling Locations Continental Heat Treating, Inc. (8/12)

10643 South Norwalk Boulevard
Santa Fe Springs, California

Base Map Source: Trilogy Regulatory Services

Attachment A

Borelogs



BORING LOG

PROJECT: ContinentalHeat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING FNP19 **SHEET** 1 of 4

DATE 7/16/12 **BY** RLF

BORING LOCATION/CONDITIONS: 12' South and 155' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2.

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85

Probe Schedule: 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
5'		X	14/20	SM	ppm	Concrete (lithology based on adj. MW5)
10'		X	15/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	17/20	SP		Light Brown fine sand, dense, moist, no odor
20'		X	14/16	SP		Tan fine sand, dense, dry, no odor
25'		X	25/26	SP		Tan fine sand, dense, dry, no odor

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP19 **SHEET** 2 of 4**DATE** 7/16/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 12' South and 155' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	19/27	ML	ppm	Light brown sandy silt, dense, sl. moist, no odor
35'		X	19/30	SP		Tan sand, loose, sl. moist, no odor
40'		X	14/21	SC		Brown sandy clay, stiff, dry, no odor
45'		X	27/32	ML		Brown sandy silt, dense, moist, no odor
50'		X	24/26	SP		Tan fine sand, dense, sl. moist, slight oily odor

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP19 **SHEET** 3 of 4**DATE** 7/16/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 12' South and 155' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
55'		X	29/39	SP	ppm	Tan fine to medium sand, dense, sl. moist, no odor
60'		X	29/34	ML		Tan clayey silt, dense, sl. moist, no odor
65'		X	31/33	SP		Tan fine to medium sand sand, dense, sl. moist, no odor
70'		X	33/39	SP		Gray fine to coarse sand with gravel to 3/8", dense, moist, no odor
75'		X	17/20	SP		Brown fine to coarse sand with gravel to 3/4", dense, moist, sl. oily odor

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP19 **SHEET** 4 of 4**DATE** 7/16/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 12' South and 155' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
80'		X	24/29	SP	0	Gray fine to coarse sand , dense, sl. moist, fuel smell
85'		X	25/33	SP	0	Gray fine to coarse sand , dense, sl. moist, fuel smell
90'						
95'						
100'						

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP20 **SHEET** 1 of 4**DATE** 7/17/12 **BY** JBP**BORING LOCATION/CONDITIONS:** 16' South and 18' W of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
5'		X	19/20	ML	ppm	Concrete
10'		X	20/20	SM		Medium brown silty fine sand, dense, slightly moist, no odor
15'		X	19/25	SM		Brown silty fine sand, dense, dry, no odor
20'		X	22/29	ML		Tan fine sandy silt, dense, dry, no odor
25'		X	16/29	ML		Light brown fine sandy silt, dense, dry, no odor



BORING LOG

PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING FNP20 **SHEET** 2 of 4

DATE 7/17/12 **BY** JBP

BORING LOCATION/CONDITIONS: 16' South and 18' W of
the SE building corner

SAMPLE METHOD Drive/

Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85 with Split
Spoon Sampler

Probe Schedule: 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.

Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	20/25	SM	ppm	Lt. brown silty fine sand, dense, dry, no odor
35'		X	29/30	SM		Lt. brown silty fine sand, dense, dry, no odor
40'		X	29/33	ML		Grey silty fine sand, dense, moist, no odor
45'		X	12/19	SC		Rusty brown sandy clay, dense, sl. moist, no odor
50'		X	19/23	SP		Rusty tan fine to coarse sand, dense, sl. moist, no odor

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** FNP20 **SHEET** 3 of 4Santa Fe Springs, California**DATE** 7/17/12 **BY** JBP**BORING LOCATION/CONDITIONS:** 16' South and 18' W of
the SE building corner**SAMPLE METHOD** Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
55'		X	24/29	SP	ppm	Tan fine to medium sand, dense, sl. moist, no odor
60'		X	10/24	ML		Brown sandy silt, dense, moist, no odor
65'		X	17/22	SP		Grey fine to medium sand, dense, moist, no odor
70'		X	29/31	SP		Grey fine to medium sand, dense, moist, no odor
75'		X	50	SP		Grey fine to medium sand with some gravel, dense, moist, no odor

Probe Schedule: 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP20 **SHEET** 4 of 4**DATE** 7/17/12 **BY** JBP**BORING LOCATION/CONDITIONS:** 16' South and 18' W of
the SE building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
80'		X	29/36	SP	ppm	Gray fine to coarse sand with some gravel, dense, sl. moist, strong solvent odor
85'		X	24/27	SP		Gray fine to coarse sand with some gravel, dense, sl. moist, strong solvent odor
90'						
95'						
100'						

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP21 **SHEET** 2 of 4**DATE** 7/18/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 14' E and 30' S of the NE
building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X		ML	ppm	Medium brown silt, dense, sl. moist, no odor
35'		X		ML		Light brown silty very fine sand, dense, sl. moist, no odor
40'		X		ML		Light brown silt, dense, sl. moist, no odor
45'		X		ML		Light brown fine sandy silt, dense, sl. moist, no odor
50'		X		ML		Reddish brown fine sandy silt, dense, sl. moist, no odor

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP21 **SHEET** 3 of 4**DATE** 7/18/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 14' E and 30' S of the NE
building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split
Spoon Sampler**Probe Schedule:** 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
55'		X		SP	ppm	Brown silty fine to medium sand, dense, sl. moist, no odor
60'		X		CL		Light brown silty clay, stiff, sl. moist, no odor
65'		X		SP		Olive tan fine to medium sand, dense, sl. moist, no odor
70'		X		SP		Olive tan fine sand, dense, sl. moist, no odor
75'		X		ML		Olive silt, medium dense, moist, no odor

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP21 **SHEET** 4 of 4**DATE** 7/18/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 14' E and 30' S of the NE
building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split
Spoon Sampler**Probe Schedule:** 5'=Gm., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
80'		X		SP	ppm	Gray fine sand, dense, sl. moist, strong hydrocarbon odor
85'		X		SP		Gray fine to medium sand, dense, sl. moist, strong hydrocarbon odor
90'						
95'						
100'						

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** FNP22 SHEET 1 of 4Santa Fe Springs, California**DATE** 7/23/12 **BY** JBP**BORING LOCATION/CONDITIONS:** 70' west and 35' south of **SAMPLE METHOD** Drive/
the NE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	7/9	SM		Brown fine sandy silt, medium dense, slightly moist, no odor
10'		X	7/13	SM		Brown fine sandy silt, medium dense, slightly moist, no odor
15'		X	11/14	SP		Tan fine sand, dense, slightly moist, no odor
20'		X	10/13	ML	0	Brown silt, stiff, dry, no odor
25'		X	12/15	ML	0	Brown silt, stiff, sl. moist, no odor

Probe Schedule: 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP22 **SHEET** 2 of 4**DATE** 7/23/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 70' west and 35' south of the NE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split Spoon Sampler**Probe Schedule:** 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	9/12	ML	ppm	Brown silt, stiff, sl. moist, no odor
35'		X	11/12	ML		Light brown silt, stiff, sl. moist, no odor
40'		X	14/15	SM		Lt. brown fine sandy silt, dense, moist, no odor
45'		X	12/16	ML		Light brown clayey silt, dense, sl. moist, no odor
50'		X	11/14	ML		Tan gray fine sandy silt, dense, sl. moist, no odor

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** FNP22 **SHEET** 3 of 4**DATE** 7/23/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 70' west and 35' south of
the NE building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split
Spoon Sampler**Probe Schedule:** 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
55'		X	15/16	SM	ppm	Tan fine to medium sand, dense, sl. moist, no odor
60'		X	16/14	CL		Brown silty clay, stiff, sl. moist, no odor
65'		X	12/14	SP		Grey fine sand, dense, moist, hydrocarbon odor
70'		X	8/11	SP		Gray fine sand, dense, sl. moist, sl. hydrocarbon odor
75'		X		SP		Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** FNP22 **SHEET** 4 of 4Santa Fe Springs, California**DATE** 7/23/12 **BY** RLF**BORING LOCATION/CONDITIONS:** 70' west and 35' south of
the NE building corner**SAMPLE METHOD** Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 75 with Split
Spoon Sampler**Probe Schedule:** 5'=Grn., 15'=Blu., 30'=Yel.,
60'=Brwn., 85'=Rd.**Vault:** 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
80'		X	14/60	SP	ppm	Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor
85'		X	14/27	SP		Gray fine to coarse sand with some gravel, dense, moist, strong hydrocarbon odor
90'						
95'						
100'						

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** MW5s **SHEET** 1 of 5Santa Fe Springs, California**DATE** 7/9/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 158' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	14/20	SM		Brown silty fine sand, medium dense, moist, no odor
10'		X	15/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	17/20	SP		Light Brown fine sand, dense, moist, no odor
20'		X	14/16	SP		Tan fine sand, dense, dry, no odor
25'		X	25/26	SP		Tan fine sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5s **SHEET** 2 of 5**DATE** 7/9/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 158' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	19/27	ML	ppm	Light brown sandy silt, dense, sl. moist, no odor
35'		X	19/30	SP		Tan sand, loose, sl. moist, no odor
40'		X	14/21	SC		Brown sandy clay, stiff, dry, no odor
45'		X	27/32	ML		Brown sandy silt, dense, moist, no odor
50'		X	24/26	SP		Tan fine sand, dense, sl. moist, slight oily odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5s **SHEET** 3 of 5**DATE** 7/9/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 158' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	
55'		X	29/39	SP		Tan fine to medium sand, dense, sl. moist, no odor
60'		X	29/34	ML		Tan clayey silt, dense, sl. moist, no odor
65'		X	31/33	SP		Tan fine to medium sand sand, dense, sl. moist, no odor
70'		X	33/39	SP		Gray fine to coarse sand with gravel to 3/8", dense, moist, no odor
75'		X	17/20	SP		Brown fine to coarse sand with gravel to 3/4", dense, moist, sl. oily odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt



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BORING LOG

PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING MW5s **SHEET** 4 of 5

DATE 7/9/12 **BY** J. Petersen

BORING LOCATION/CONDITIONS: 43' South and 158' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85 with Split Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
					ppm		
80'		X	24/29	SP		Grey fine to coarse sand, dense, moist, fuel odor	
85'		X	25/33	SP		Grey fine to coarse sand, dense, moist, fuel odor	
90'		X	27/33	SP		Grey fine to coarse sand, dense, moist, fuel odor	
95'		X	27/33	ML		Grey silt, dense, sl. saturated, no odor	
100'		X	16/23	SP		Gray fine to medium sand, dense, saturated, no odor	

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

BORING LOG

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** MW5m **SHEET** 1 of 6Santa Fe Springs, California**DATE** 7/10/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 153' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	14/20	SM		Brown silty fine sand, medium dense, moist, no odor
10'		X	15/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	17/20	SP		Light Brown fine sand, dense, moist, no odor
20'		X	14/16	SP		Tan fine sand, dense, dry, no odor
25'		X	25/26	SP		Tan fine sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5m **SHEET** 2 of 6**DATE** 7/10/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 153' West of
the SE building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	19/27	ML	ppm	Light brown sandy silt, dense, sl. moist, no odor
35'		X	19/30	SP		Tan sand, loose, sl. moist, no odor
40'		X	14/21	SC		Brown sandy clay, stiff, dry, no odor
45'		X	27/32	ML		Brown sandy silt, dense, moist, no odor
50'		X	24/26	SP		Tan fine sand, dense, sl. moist, slight oily odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5m **SHEET** 3 of 6**DATE** 7/10/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 153' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	
55'		X	29/39	SP		Tan fine to medium sand, dense, sl. moist, no odor
60'		X	29/34	ML		Tan clayey silt, dense, sl. moist, no odor
65'		X	31/33	SP		Tan fine to medium sand sand, dense, sl. moist, no odor
70'		X	33/39	SP		Gray fine to coarse sand with gravel to 3/8", dense, moist, no odor
75'		X	17/20	SP		Brown fine to coarse sand with gravel to 3/4", dense, moist, sl. oily odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5m **SHEET** 4 of 6**DATE** 7/10/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 153' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
80'		X	24/29	SP	ppm	Grey fine to coarse sand, dense, moist, fuel odor
85'		X	25/33	SP		Grey fine to coarse sand, dense, moist, fuel odor
90'		X	27/33	SP		Grey fine to coarse sand, dense, moist, fuel odor
95'		X	27/33	ML		Grey silt, dense, sl. saturated, no odor
100'		X	16/23	SP		Gray fine to medium sand, dense, saturated, no odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5m **SHEET** 5 of 6**DATE** 7/10/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 153' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
105'		X	22/44	SP	ppm	Gray fine to medium sand, dense, saturated, no odor
110'		X	22/44	SP		Gray fine to medium sand, dense, saturated, no odor
115'		X	29/50	SP		Gray fine to medium sand, dense, saturated, no odor
120'		X	29/31	SP		Gray fine to medium sand, dense, saturated, no odor
125'		X	29/44	ML		Gray fine to medium sand with gravel to 3/8", dense, saturated, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt



PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard

BORING MW5m**SHEET** 6 of 6

Santa Fe Springs, California

DATE 7/10/12 **BY** J. Petersen

BORING LOCATION/CONDITIONS: 43' South and 153' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85 with Split Spoon Sampler

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5d **SHEET** 1 of 7**DATE** 7/11/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 147' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	14/20	SM		Brown silty fine sand, medium dense, moist, no odor
10'		X	15/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	17/20	SP		Light Brown fine sand, dense, moist, no odor
20'		X	14/16	SP		Tan fine sand, dense, dry, no odor
25'		X	25/26	SP		Tan fine sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots**Vault:** 12" traffic rated, water tight, bolt

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5d **SHEET** 2 of 7**DATE** 7/11/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 147' West of **SAMPLE METHOD** Drive/
the SE building corner Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
30'		X	19/27	ML	ppm	Light brown sandy silt, dense, sl. moist, no odor
35'		X	19/30	SP		Tan sand, loose, sl. moist, no odor
40'		X	14/21	SC		Brown sandy clay, stiff, dry, no odor
45'		X	27/32	ML		Brown sandy silt, dense, moist, no odor
50'		X	24/26	SP		Tan fine sand, dense, sl. moist, slight oily odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5d **SHEET** 3 of 7**DATE** 7/11/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 147' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
					ppm			
55'		X	29/39	SP		Tan fine to medium sand, dense, sl. moist, no odor		
60'		X	29/34	ML		Tan clayey silt, dense, sl. moist, no odor		
65'		X	31/33	SP		Tan fine to medium sand sand, dense, sl. moist, no odor		
70'		X	33/39	SP		Gray fine to coarse sand with gravel to 3/8", dense, moist, no odor		
75'		X	17/20	SP		Brown fine to coarse sand with gravel to 3/4", dense, moist, sl. oily odor		

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt



BORING LOG

PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING MW5d **SHEET** 4 of 7

DATE 7/11/12 **BY** J. Petersen

BORING LOCATION/CONDITIONS: 43' South and 147' West of
the SE building corner

SAMPLE METHOD Drive/
Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
					ppm			
80'		X	24/29	SP		Grey fine to coarse sand, dense, moist, fuel odor		
85'		X	25/33	SP		Grey fine to coarse sand, dense, moist, fuel odor		
90'		X	27/33	SP		Grey fine to coarse sand, dense, moist, fuel odor		
95'		X	27/33	ML		Grey silt, dense, sl. saturated, no odor		
100'		X	16/23	SP		Gray fine to medium sand, dense, saturated, no odor		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5d **SHEET** 5 of 7**DATE** 7/11/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 147' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
					ppm			
105'		X	22/44	SP		Gray fine to medium sand, dense, saturated, no odor		
110'		X	22/44	SP		Gray fine to medium sand, dense, saturated, no odor		
115'		X	29/50	SP		Gray fine to medium sand, dense, saturated, no odor		
120'		X	29/31	SP		Gray fine to medium sand, dense, saturated, no odor		
125'		X	29/44	ML		Gray fine to medium sand with gravel to 3/8", dense, saturated, no odor		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW5d **SHEET** 6 of 7**DATE** 7/11/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 43' South and 147' West of the SE building corner
SAMPLE METHOD Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
					ppm			
130'		X	19/20	SP		Gray fine to medium sand with gravel to 3/8", dense, saturated, no odor		
135'		X	15/22	SP		Gray fine to medium sand with gravel to 3/8", dense, saturated, no odor		
140'		X	17/21	SP		Gray fine to medium sand with gravel to 3/8", dense, saturated, no odor		
145'				SP		Heaving sands no sample		
150'				SP		Heaving sands no sample		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

BORING LOG

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** MW6d **SHEET** 1 of 7Santa Fe Springs, California**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of**SAMPLE METHOD** Drive/the NW building cornerUndisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	11/17	SM		Brown silty fine sand, medium dense, moist, no odor
10'		X	12/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	16/22	SP		Brown fine to coarse sand, dense, moist, no odor
20'		X	24/20	SM		Tan silty fine sand, dense, dry, no odor
25'		X	19/23	SC		Brown clayey sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots**Vault:** 12" traffic rated, water tight, bolt

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6d **SHEET** 2 of 7**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	
30'		X	19/30	ML		Light brown sandy silt, dense, sl. moist, no odor
35'		X	17/21	ML		Light brown sandy silt, dense, sl. moist, no odor
40'		X	25/26	SP		Grey medium sand, dense, moist, no odor
45'		X	23/27	SP		Grey medium sand, dense, moist, hydrocarbon odor
50'		X	29/34	SP		Grey medium sand w/ gravel, dense, moist, hydrocarbon odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6d **SHEET** 3 of 7**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	
55'		X	37/36	SP		Tan fine to coarse sand, dense, sl. moist, no odor
60'		X	23/40	SP		Grey fine to coarse sand, dense, sl. moist, no odor
65'		X	22/42	SP		Grey fine to coarse sand, dense, sl. moist, no odor
70'		X	36/41	ML		brown silt, stiff, dry, no odor
75'		X	21/33	SP		Gray medium to coarse sand, dense, moist, sl. oily odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6d **SHEET** 4 of 7**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	
80'		X	27/31	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor
85'		X	17/24	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor
90'		X	27/31	SP		Grey medium to coarse sand, dense, moist, no odor
95'		X	19/20	SP		Grey fine to medium sand, dense, saturated, no odor
100'		X	19/21	SP		Gray fine to medium sand, dense, saturated, no odor

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt



- Concrete
- Grout (neat cement)
- No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6d **SHEET** 5 of 7**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
105'		X		SP	ppm	no sample heavying sands		
110'				SP				
115'				SP		no sample heavying sands		
120'				SP				
125'				SP		no sample heavying sands		

Casing: 4" PVC flush thread w/ .02" slots**Vault:** 12" traffic rated, water tight, bolt - Concrete - Grout (neat cement) - No. 3 Sand



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BORING LOG

PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING MW6d **SHEET** 6 of 7

DATE 7/24/12 **BY** J. Petersen

BORING LOCATION/CONDITIONS: 7' North and 26' East of
the NW building corner

SAMPLE METHOD Drive/
Undisturbed

OBSERVERS/SAMPLERS: JBP




DRILLERS: BC2

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
130'				SP	ppm	no sample heaving sands		
135'				SP				
140'				SP		Heaving sands no sample		
145'				SP				
150'				SP		Heaving sands no sample		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

-  - Concrete
-  - Grout (neat cement)
-  - No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6d **SHEET** 7 of 7**DATE** 7/24/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 26' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
155'				SP	ppm	Heaving sands no sample	
160'				SP		Heaving sands no sample	
165'				SP		Heaving sands no sample	
170'				SP		Heaving sands no sample	
						Probe Sch.	
						Green = 5'	
						Blue = 15'	

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6m **SHEET** 1 of 6**DATE** 7/20/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 15' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2.**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	11/17	SM		Brown silty fine sand, medium dense, moist, no odor
10'	X	12/20	SM			Brown silty fine sand, medium dense, moist, no odor
15'	X	16/22	SP			Brown fine to coarse sand, dense, moist, no odor
20'	X	24/20	SM			Tan silty fine sand, dense, dry, no odor
25'	X	19/23	SC			Brown clayey sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand



Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6m **SHEET** 2 of 6**DATE** 7/20/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 15' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
					ppm		
30'		X	19/27	ML		Light brown sandy silt, dense, sl. moist, no odor	
35'		X	19/30	SP		Light brown sandy silt, dense, sl. moist, no odor	
40'		X	14/21	SC		Grey medium sand, dense, moist, no odor	
45'		X	27/32	ML		Grey medium sand, dense, moist, hydrocarbon odor	
50'		X	24/26	SP		Grey medium sand w/ gravel, dense, moist, hydrocarbon odor	

Casing: 4" PVC flush thread w/ .02" slots**Vault:** 12" traffic rated, water tight, bolt - Concrete - Grout (neat cement) - No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6m **SHEET** 3 of 6**DATE** 7/20/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 15' East of
the NW building corner 7'**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRIILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
55'		X	37/36	SP	ppm	Tan fine to coarse sand, dense, sl. moist, no odor		
60'		X	23/40	SP		Grey fine to coarse sand, dense, sl. moist, no odor		
65'		X	22/42	SP		Grey fine to coarse sand, dense, sl. moist, no odor		
70'		X	36/41	ML		brown silt, stiff, dry, no odor		
75'		X	21/33	SP		Gray medium to coarse sand, dense, moist, sl. oily odor		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6m **SHEET** 4 of 6**DATE** 7/20/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 15' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
					ppm			
80'		X	27/31	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor		
85'		X	17/24	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor		
90'		X	27/31	SP		Grey medium to coarse sand, dense, moist, no odor		
95'		X	19/20	SP		Grey fine to medium sand, dense, saturated, no odor		
100'		X	19/21	SP		Gray fine to medium sand, dense, saturated, no odor		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand



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BORING LOG

PROJECT: Continental Heat Treating

SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California

BORING LOCATION/CONDITIONS: 7' North and 15' East of
the NW building corner

OBSERVERS/SAMPLERS: JBP

EQUIPMENT: PID for H&S monitoring

JOB NO. 10-758

BORING MW6m SHEET 5 of 6

DATE 7/20/12 **BY** J. Petersen

SAMPLE METHOD Drive/
Undisturbed

DRILLERS: BC2

EQUIPMENT: CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION		
	BULK	UNDISTURBED	BLOWS/ FT					
105'		X		SP	ppm	no sample heavying sands		
110'				SP				
115'				SP		no sample heavying sands		
120'				SP				
125'				SP		no sample heavying sands		

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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BORING LOG

PROJECT: Continental Heat Treating

JOB NO. 10-758

SITE: 10643 So. Norwalk Boulevard

BORING MW6s SHEET 1 of 5

Santa Fe Springs, California

DATE 7/19/12 BY J. Petersen

BORING LOCATION/CONDITIONS: 7' North and 10' East of
the NW building corner

SAMPLE METHOD Drive/

Undisturbed

OBSERVERS/SAMPLERS: JBP

DRILLERS: BC2.

EQUIPMENT: PID for H&S monitoring

EQUIPMENT: CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
	BULK	UNDISTURBED	BLOWS/ FT			
					ppm	Concrete
5'		X	11/17	SM		Brown silty fine sand, medium dense, moist, no odor
10'		X	12/20	SM		Brown silty fine sand, medium dense, moist, no odor
15'		X	16/22	SP		Light Brown fine sand, dense, moist, no odor
20'		X	24/20	SM		Tan fine sand, dense, dry, no odor
25'		X	19/23	SC		Tan fine sand, dense, dry, no odor

- Concrete
- Grout (neat cement)
- No. 3 Sand

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6s **SHEET** 2 of 5**DATE** 7/19/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 10' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
					ppm		
30'		X	19/30	ML		Light brown sandy silt, dense, sl. moist, no odor	
35'		X	17/21	ML		Light brown sandy silt, dense, sl. moist, no odor	
40'		X	25/26	SP		Grey medium sand, dense, moist, no odor	
45'		X	23/27	SP		Grey medium sand, dense, moist, hydrocarbon odor	
50'		X	29/34	SP		Grey medium sand w/ gravel, dense, moist, hydrocarbon odor	

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

**FERO ENGINEERING**

ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard
Santa Fe Springs, California**BORING** MW6s **SHEET** 3 of 5**DATE** 7/19/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 10' East of
the NW building corner**SAMPLE METHOD** Drive/
Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
					ppm		
55'		X	37/36	SP		Tan fine to coarse sand, dense, sl. moist, no odor	
60'		X	23/40	SP		Grey fine to coarse sand, dense, sl. moist, no odor	
65'		X	22/42	SP		Grey fine to coarse sand, dense, sl. moist, no odor	
70'		X	36/41	ML		brown silt, stiff, dry, no odor	
75'		X	21/33	SP		Gray medium to coarse sand, dense, moist, sl. oily odor	

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG**PROJECT:** Continental Heat Treating**JOB NO.** 10-758**SITE:** 10643 So. Norwalk Boulevard**BORING** MW6s **SHEET** 4 of 5Santa Fe Springs, California**DATE** 7/19/12 **BY** J. Petersen**BORING LOCATION/CONDITIONS:** 7' North and 10' East of
the NW building corner**SAMPLE METHOD** Drive/Undisturbed**OBSERVERS/SAMPLERS:** JBP**DRILLERS:** BC2**EQUIPMENT:** PID for H&S monitoring**EQUIPMENT:** CME 85 with Split
Spoon Sampler

DEPTH (FT.)	SAMPLE			USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION	
	BULK	UNDISTURBED	BLOWS/ FT				
					ppm		
80'		X	27/31	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor	
85'		X	17/24	SP		Grey fine to medium sand, dense, moist, hydrocarbon odor	
90'		X	27/31	SP		Grey medium to coarse sand, dense, moist, no odor	
95'		X	19/20	SP		Grey fine to medium sand, dense, saturated, no odor	
100'		X	19/21	SP		Gray fine to medium sand, dense, saturated, no odor	

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

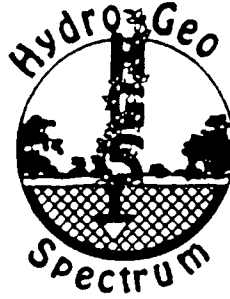
- Concrete
- Grout (neat cement)
- No. 3 Sand

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Attachment B

Laboratory Report
Hydro-Geo Spectrum

August 2, 2012



John Petersen Rick Fero
431 West Lambert Road Unit 305
Brea, CA 92621

Dear John,

Enclosed please find the report on the vapor sampling and analysis performed at Continental Heating in Santa Fe Springs, Ca on July 30, 2012.

The report consists of one bound and one unbound copy with the following sections:

- Technical approach with results and discussion.
- Spreadsheet of results
- Data quantitation sheets in LARWQCB format.
- QA/QC in LARWQCB format.
- Chromatograms (unbound copy only).

If you have any questions or additional requirements, please do not hesitate to call. It was a pleasure working with you, and I look forward to future projects.

Sincerely,

A handwritten signature in black ink, appearing to read "Raphe Pavlick", written in a cursive style.

Raphe Pavlick
Director

LOCATION- depth (ft)	Date Sampled	1,1-DCE µg/L	1,2-DCE µg/L	TCE µg/L	PCE µg/L	HC µg/L	VOC µg/L
FNP19-5	30-Jul-12	7.8	6.4	11	100	N	N
FNP19-15	30-Jul-12	1.7	5.7	29	465	1523	N
FNP19-30	30-Jul-12	3.2	11	8.2	491	1568	N
FNP19-60	30-Jul-12	18	123	32	121	5749	N
FNP19-85	30-Jul-12	46	6.2	7	92	8580	N
FNP20-5	30-Jul-12	18	2.9	7.4	6.1	9833	N
FNP20-15	30-Jul-12	N	N	0.8	22	223	N
FNP20-30	30-Jul-12	1	N	2.4	6.3	630	N
FNP20-60	30-Jul-12	21	12	29	7.7	8146	N
FNP20-85	30-Jul-12	49	30	4.4	7.4	13724	N
FNP21-5	30-Jul-12	2.3	N	8.2	74	2169	N
FNP21-15	30-Jul-12	4.1	7.4	7.5	170	2747	N
FNP21-30	30-Jul-12	2.2	1.4	10	152	2365	N
FNP21-60	30-Jul-12	15	9.6	43	88	8398	N
FNP21-85	30-Jul-12	27	39	12	75	9256	N
FNP22-5	30-Jul-12	3.8	14	10	162	1948	N
FNP22-15	30-Jul-12	4.5	11	25	858	N	N
FNP22-30	30-Jul-12	3	5.9	19	620	N	N
FNP22-60	30-Jul-12	0.8	0.9	N	5.9	277	N
FNP22-85	30-Jul-12	46	51	8.4	166	10829	N
MW6-5	30-Jul-12	N	45	234	7309	N	N
MW6-15	30-Jul-12	N	80	255	7172	N	N
MW6-30	30-Jul-12	4.6	130	134	2838	2053	N
MW6-60	30-Jul-12	12	236	95	962	3282	N
MW6-85	30-Jul-12	18	535	64	342	5756	N
VP5-5	30-Jul-12	N	N	N	N	N	N
VP5-15	30-Jul-12	N	N	N	N	N	N

PCE = Tetrachloroethylene

TCE = Trichloroethylene

DCE = Dichloroethylene

HC = Hydrocarbons

VOC = Volatile Organic Compound (other)

N = < 0.5 µg/L

DATA

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	FNFP19	FNFP19	FNFP19
	WOB9133-12519	WOB9134-12520	WOB9136-12522
Sampling Depth (ft)	5	15	30
Purge Volume (ml)	1650	2250	3000
Vacuum	NO	NO	NO
Sampling Time	0941	0945 A	1000 A
Injection Time	1104	1125	1220
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	5.31	12112	7.7	6.64	2660	1.7	6.61	4899	3.1
Trichloroethene	MS	8.58	16321	10.8	8.61	42977	28.6	8.61	12291	8.1
Tetrachloroethene	MS	9.75	115180	99.9	9.76	535359	464.6	9.75	566160	491.3
Deutero-chloroform	MS	7.77	38589	107%	7.86	43371	120%	7.85	35939	99%
D6-BENZENE	MS	8.21	157940	112%	8.24	144923	103%	8.24	145477	103%
D6-ACETONE	MS	6.77	50504	114%	6.81	53759	121%	6.80	49843	112%
D2-Dichloromethane	MS	7.05	42096	94%	6.88	48128	108%	6.84	44712	100%
D8-TOLUENE	MS				9.36	98063	92%	9.35	117677	111%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FNP19	VP5	FNP20
	WOB9137-12523	WOB9138A-12522	WOB9139-12523
Sampling Depth (ft)	85	5	15
Purge Volume (ml)	5850	300	3000
Vacuum	NO	YES	NO
Sampling Time	1008	0953	1010
Injection Time	1257	1314	1333
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	6.55	71081	45.7	NONE DETECTED					
Trichloroethene	MS	8.61	10452	6.9	NONE DETECTED					
Tetrachloroethene	MS	9.77	106203	92.1	NONE DETECTED					
Deutero-chloroform	MS	7.85	42834	118%	7.83	33526	93%	7.84	35053	97%
D6-BENZENE	MS	8.13	141922	101%	8.23	130397	92%	8.24	134381	95%
D6-ACETONE	MS	6.81	49317	111%	6.80	46338	104%	6.80	49521	111%
D2-Dichloromethane	MS	6.94	53902	121%	6.68	41959	94%	6.78	44495	100%
D8-TOLUENE	MS	9.36	108297	102%	9.35	94957	90%	9.36	102506	97%

Total Number of Peaks by GCMS. 3 + Surrogates 0 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	FN21	FN21	FN21	FN21
	WOB9141-12525	WOB9142-12526	WOB9143-12527	WOB9144-12528
Sampling Depth (ft)	5	15	30	60
Purge Volume (ml)	1650	2250	3000	4500
Vacuum	NO	NO	NO	NO
Sampling Time	1441	1445 A	1450	1500
Injection Time	1612	1631	1649	1705
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	6.63	3642	2.3	6.59	6436	4.1	6.58	3479	2.2
Trichloroethene	MS	8.60	12333	8.2	8.61	11222	7.4	8.60	15710	10.4
Tetrachloroethene	MS	9.75	85397	74.1	9.77	195716	169.8	9.76	175655	152.4
Deutero-chloroform	MS	7.85	39038	108%	7.85	37483	104%	7.84	37738	104%
D6-BENZENE	MS	8.23	157040	111%	8.24	134774	96%	8.23	129078	92%
D6-ACETONE	MS	6.81	55519	125%	6.80	57901	130%	6.80	50783	114%
D2-Dichloromethane	MS	6.86	49427	111%	6.82	45352	102%	6.78	47491	106%
D8-TOLUENE	MS	9.35	98914	93%	9.36	106809	101%	9.36	109017	103%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ERO
 ANALYST: Raphe Pavlick
 NORMAL INJECTION VOLUME 1 ml
 Sample ID:

LAB NAME: HydroGeoSpectrum (HGS)
 COLLECTOR: Raphe Pavlick
 DATE: 30 JUL 2012
 INSTRUMENT ID 2415A8201

	FN21	FN22	FN22	FN22
	WOB9145-12529	VOF2908-10480	VOF2909-10481	VOF2910-10482
Sampling Depth (ft)	85	5	15	30
Purge Volume (ml)	5850	1650	2250	3000
Vacuum	NO	NO	NO	NO
Sampling Time	1508	0926	0930	0934
Injection Time	1724	1053	1113	1133
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	6.48	42095	27.0	2.83	15883	3.8	2.88	18596	4.5
1,2-Dichloroethene (total)	MS				3.64	68116	14.1	3.68	51362	10.6
Trichloroethene	MS	8.59	18542	12.3	5.95	85847	9.9	5.98	216073	25.0
Tetrachloroethene	MS	9.75	86865	75.3	8.27	1296550	162.4	8.28	6850030	858.4
Deutero-chloroform	MS	8.11	35431	98%	3.85	165007	ERR	3.89	173611	110%
D6-BENZENE	MS	8.11	138553	98%	6.11	329994	ERR	6.13	289661	99%
D6-ACETONE	MS	6.77	49403	111%	1.95	176832	ERR	2.02	155702	104%
D2-Dichloromethane	MS	6.91	51305	115%	1.82	120016	ERR	1.92	117467	121%
D8-TOLUENE	MS	9.43	115427	109%	8.71	201838	ERR	8.70	202178	102%

Total Number of Peaks by GC/MS: 3 + Surrogates 4 + Surrogates 4 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	FN22	FN22	FN22	FN20	FN20
	VOF2911-10483	VOF2912-10484	VOF2913-10485	VOF2914-10486	
Sampling Depth (ft)	60	85	5	15	
Purge Volume (ml)	4500	5850	1650	2250	
Vacuum	NO	NO	NO	NO	
Sampling Time	0944	0952 A	1001	1005	
Injection Time	1152	128	1228	1248	
Injection Volume	1ml	1ml	1ml	1ml	
Dilution Factor	1	1	1	1	

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.92	3291	0.8	2.73	190031	45.9	2.90	73969	17.9
1,2-Dichloroethene (total)	MS	3.75	4254	0.8	3.54	245559	51.0	3.69	13947	2.9
Trichloroethene	MS				5.94	72390	8.3	6.00	64007	7.4
Tetrachloroethene	MS	8.30	46982	5.8	8.31	1327965	166.4	8.31	48529	6.0
Deutero-chloroform	MS	3.90	173421	110%	3.76	150179	96%	3.90	129938	83%
D6-BENZENE	MS	6.16	345024	118%	6.20	355380	121%	6.23	328935	112%
D6-ACETONE	MS	2.04	161167	108%	1.79	154938	104%	2.03	162350	109%
D2-Dichloromethane	MS	1.93	116888	121%	1.67	118924	123%	1.92	109098	113%
D8-TOLUENE	MS	8.75	223099	113%	8.75	214579	108%	8.75	205266	104%

Total Number of Peaks by GCMS: 3 + Surrogates 4 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	FOF2015-10487	FOF2016-10488	FOF2017-10489
Sampling Depth (ft)	30	60	85
Purge Volume (ml)	3000	4500	5850
Vacuum	NO	NO	NO
Sampling Time	1010	1020 A	1028 H
Injection Time	1305	1324	1343
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.90	4348	1.0	2.67	87021	21.0	2.91	201423	48.7
1,2-Dichloroethene (total)	MS				3.51	58219	12.1	3.69	143243	29.8
Trichloroethene	MS	6.02	20722	2.4	5.96	254074	29.4	6.00	38196	4.4
Tetrachloroethene	MS	8.34	50035	6.2	8.32	61417	7.7	8.32	59365	7.4
Deutero-chloroform	MS	3.90	151912	97%	3.73	139475	89%	3.90	153986	98%
D6-BENZENE	MS	6.17	308304	105%	6.13	343179	117%	6.26	365565	125%
D6-ACETONE	MS	2.01	170755	114%	1.72	146611	98%	2.02	157811	106%
D2-Dichloromethane	MS	1.88	112549	116%	1.61	114589	118%	1.91	115742	120%
D8-TOLUENE	MS	8.78	194246	98%	8.77	227897	115%	8.77	211109	107%

Total Number of Peaks by GCMS: 3 + Surrogates 4 + Surrogates 4 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	MW6	MW6	MW6	MW6
	VOF2918-10490	VOF2918D-10490	VOF2919-10491	VOF2919D-10491
Sampling Depth (ft)	5	5 DF10	15	15 DF1
Purge Volume (ml)	1650	1650	2250	2250
Vacuum	NO	NO	NO	NO
Sampling Time	1451	1451	1455	1455
Injection Time	1600	1617	1633	1652
Injection Volume	1ml	0.1ml	1ml	0.1ml
Dilution Factor	1	10	1	10

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (total)	MS	3.70	216556	45.0	3.75	21873	45.5	3.64	385446	80.1
Trichloroethene	MS	6.01	2017544	233.8	6.04	208577	241.7	6.00	2199513	254.8
Tetrachloroethene	MS	8.32	26617380	3335.8	8.34	5831919	7308.9	8.31	25823087	3236.3
Deutero-chloroform	MS	3.90	193103	123%	3.94	19127	122%	3.86	148356	94%
D6-BENZENE	MS	6.17	310107	106%	6.18	26424	90%	6.15	276558	94%
D6-ACETONE	MS	2.04	160116	107%	2.09	16893	113%	1.95	138504	93%
D2-Dichloromethane	MS	1.93	104820	108%	1.96	12051	124%	1.83	117500	121%
D8-TOLUENE	MS	8.77	201995	102%	8.81	21504	109%	8.77	190919	97%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 30 JUL 2012
 ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
 NORMAL INJECTION VOLUME 1 ml

Sample ID:	MW6	MW6	MW6
	VOF2920-10492	VOF2920D-10492	VOF2922-10494
Sampling Depth (ft)	30	30 DF10	85
Purge Volume (ml)	3000	3000	5850
Vacuum	NO	NO	NO
Sampling Time	1500	1500	1518
Injection Time	1705	1725	1803
Injection Volume	1ml	0.1ml	1ml
Dilution Factor	1	10	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.84	18860	4.5				2.87	73736	17.8
1,2-Dichloroethene (total)	MS	3.64	626941	130.4	3.65	67790	141.0	3.66	2569731	534.5
Trichloroethene	MS	5.98	1156144	133.9	5.99	120503	139.6	6.00	553288	64.1
Tetrachloroethene	MS	8.28	16538965	2072.7	8.28	2264406	2837.9	8.33	2729857	342.1
Deutero-chloroform	MS	3.85	124033	79%	3.86	16014	102%	3.88	139706	89%
D6-BENZENE	MS	6.14	311641	106%	6.15	30463	104%	6.17	286455	98%
D6-ACETONE	MS	1.96	133084	89%	1.98	18378	123%	1.97	166345	111%
D2-Dichloromethane	MS	1.84	90840	94%	1.86	11595	120%	1.87	114575	118%
D8-TOLUENE	MS	8.74	190681	96%	8.74	18661	94%	8.77	232418	117%

Total Number of Peaks by GCMS: 4 + Surrogates 3 + Surrogates 4 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

QA/QC

	Compound	1500	500	20	5	100	Avg		%RSD	AccRge
1)	Vinyl Chloride	3.706	3.519	4.943	5.436	5.104	4.542	E2	19.14	30
2)	Bromomethane	1.571	1.623	1.626	1.816	1.597	1.646	E2	5.91	30
3)	Chloroethane	2.216	2.225	3.819	2.592	2.655	2.701	E3	24.31	30
4)	1,1-Dichloroethene	3.153	3.528	4.691	4.490	4.800	4.132	E3	17.99	20
5)	Acetone	4.304	4.170	5.265	5.426	5.489	4.931	E3	12.99	20
6)	Methylene Chloride	1.310	1.309	1.954	1.804	1.853	1.646	E3	18.94	20
7)	1,2-Dichloroethene (t	0.759	0.860	1.164	0.998	1.027	0.961	E4	16.26	20
8)	1,1-Dichloroethane	0.802	0.818	0.968	0.906	1.058	0.910	E4	11.71	20
9)	Chloroform	1.121	1.222	1.056	1.217	1.259	1.175	E4	7.14	20
10)	1,2-Dichloroethane	5.112	5.783	5.595	4.523	5.745	5.352	E3	9.99	20
11)	2-Butanone	4.814	5.080	6.035	7.144	5.326	5.680	E3	16.48	20
12)	1,1,1-Trichloroethane	1.552	1.679	1.810	1.656	1.619	1.663	E4	5.71	20
13)	Carbon Tetrachloride	0.837	0.874	1.170	1.131	1.335	1.070	E4	19.65	20
14)	Benzene	1.685	1.594	2.351	1.614	1.628	1.774	E4	18.26	20
15)	Trichloroethene	7.402	8.347	8.683	9.380	9.334	8.629	E3	9.43	20
16)	1,2-Dichloropropane	5.139	5.225	7.367	6.900	7.236	6.373	E3	17.28	20
17)	Bromodichloromethane	0.920	0.972	1.307	1.344	1.273	1.163	E4	17.25	20
18)	cis-1,3-Dichloroprope	7.373	7.490	8.543	8.636	8.790	8.166	E3	8.30	20
19)	trans-1,3-Dichloropro	4.476	5.442	6.704	6.148	6.460	5.846	E3	15.41	20
20)	1,1,2-Trichloroethane	3.412	3.611	4.982	5.130	4.771	4.381	E3	18.43	20
21)	Dibromochloromethane	0.901	0.986	1.057	1.349	1.331	1.125	E4	18.15	20
22)	Bromoform	0.970	1.020	1.226	1.361	1.379	1.191	E4	15.88	20
23)	4-Methyl-2-Pentanone	1.051	1.054	1.525	0.972	1.106	1.142	E4	19.23	20
24)	Toluene	0.803	0.920	1.157	1.127	1.094	1.020	E4	14.90	20
25)	Tetrachloroethene	7.478	7.756	7.779	8.798	8.084	7.979	E3	6.34	20
26)	2-Hexanone	4.666	5.375	7.252	5.928	7.287	6.102	E3	18.95	20
27)	Chlorobenzene	1.434	1.491	1.782	1.526	1.590	1.565	E4	8.56	20
28)	Ethylbenzene	5.258	4.987	7.808	6.840	6.919	6.362	E3	18.82	20
29)	Xylene (total)	2.021	2.134	2.927	2.520	2.668	2.454	E4	15.30	20
30)	Styrene	0.901	0.918	1.346	1.151	1.274	1.118	E4	18.15	20
31)	1,1,1,2-Tetrachloroet	8.013	8.265	9.872	9.396	9.748	9.059	E3	9.52	20
32)	1,1,2,2-Tetrachloroet	1.014	1.013	1.460	1.560	1.325	1.274	E4	19.79	20
33)	FREON-11	0.942	1.023	1.226	1.137	1.198	1.105	E4	10.83	30
34)	S Deutero-chloroform	1.558	1.584	1.573			1.571	E3	0.83	25
35)	FREON-12	1.025	1.036	1.373	0.930	1.128	1.099	E4	15.38	30
36)	FREON-113	0.860	0.907	1.349	1.016	0.947	1.016	E4	19.16	30
39)	s D6-BENZENE	2.845	2.842	3.113			2.933	E3	5.32	25
41)	S D6-ACETONE	1.486	1.476	1.524			1.495	E3	1.70	25
42)	S D2-Dichloromethane	9.637	9.435	9.974			9.682	E2	2.82	25
43)	Freon-22	1.476	2.811	2.602	3.318	2.891	2.620	E2	26.36	30
44)	Freon-141B	0.775	0.882	1.032	0.955	1.081	0.945	E4	12.85	30
53)	S D8-TOLUENE	1.999	1.917	2.019			1.978	E3	2.73	25

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2873.D

Acq On : 30 Jun 2012 12:45 pm

Sample : LCS 50ng

Mixer : 0157LY1C

MS Integration Params: steint.p

Vial: 1

Operator: Raphe HGS

Inst : GC/MS Ins

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\070112.M (RTE Integrator)

Title : FULL SCAN

Last Update : Sun Jul 08 13:10:14 2012

Response via : Multiple Level Calibration

Min. PPF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. PPF Dev : 15 Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	AccRge

1	Vinyl Chloride	454.157	424.920	6.4	20
2	Bromomethane	164.647	175.960	-6.9	20
3	Chloroethane	2.701	2.201	E3	18.5 20
4	1,1-Dichloroethene	4.132	4.169	E3	-0.9 15
6	Methylene Chloride	1.646	1.431	E3	13.1 15
7	1,2-Dichloroethene (total)	9.615	9.214	E3	4.2 15
8	1,1-Dichloroethane	9.104	10.191	E3	-11.9 15
9	Chloroform	11.748	11.963	E3	-1.8 15
10	1,2-Dichloroethane	5.352	4.559	E3	14.8 15
12	1,1,1-Trichloroethane	16.632	15.057	E3	9.5 15
13	Carbon Tetrachloride	10.696	10.039	E3	6.1 15
14	Benzene	17.745	15.398	E3	13.2 15
15	Trichloroethene	8.629	7.839	E3	9.2 15
16	1,2-Dichloropropane	6.373	6.111	E3	4.1 15
17	Bromodichloromethane	11.632	12.855	E3	-10.5 15
18	cis-1,3-Dichloropropene	8.166	9.344	E3	-14.4 15
19	trans-1,3-Dichloropropene	5.846	5.798	E3	0.8 15
20	1,1,2-Trichloroethane	4.381	4.603	E3	-5.1 15
21	Dibromochloromethane	11.247	11.309	E3	-0.6 15
22	Bromoform	11.911	13.606	E3	-14.2 15
24	Toluene	10.203	8.703	E3	14.7 15
25	Tetrachloroethene	7.979	7.542	E3	5.5 15
27	Chlorobenzene	15.646	13.589	E3	13.1 15
28	Ethylbenzene	6.362	5.990	E3	5.8 15
29	Xylene (total)	24.539	22.023	E3	10.3 15
30	Styrene	11.180	12.414	E3	-11.0 15
31	1,1,1,2-Tetrachloroethane	9.059	8.053	E3	11.1 15
32	1,1,2,2-Tetrachloroethane	12.744	14.100	E3	-10.6 15
33	FREON-11	11.051	9.089	E3	17.8 20
35	FREON-12	10.985	11.584	E3	-5.5 20
36	FREON-113	10.158	8.140	E3	19.9 20
43	Freon-22	261.963	292.740		-11.7 20
44	Freon-141B	9.452	9.187	E3	2.8 20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\VOF2905.D

Vial: 1

Acq On : 30 Jul 2012 8:04 am

Operator: Raphe HGS

Sample : STANDARD 50 ng

Inst : GC/MS Ins

Misc : 30JULY12

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\070112N.M (RTE Integrator)

Title : FULL SCAN

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	454.157	435.320		4.1	20
2	Bromomethane	164.647	140.140		14.9	20
3	Chloroethane	2.701	2.414	E3	10.6	20
4	1,1-Dichloroethene	4.132	3.807	E3	7.9	15
5	Acetone	4.931	4.745	E3	3.8	15
6	Methylene Chloride	1.646	1.659	E3	-0.8	15
7	1,2-Dichloroethene (total)	9.615	8.522	E3	11.4	15
8	1,1-Dichloroethane	9.104	8.357	E3	8.2	15
9	Chloroform	11.748	10.740	E3	8.6	15
10	1,2-Dichloroethane	5.352	4.567	E3	14.7	15
11	2-Butanone	5.680	6.221	E3	-9.5	15
12	1,1,1-Trichloroethane	16.632	14.559	E3	12.5	15
13	Carbon Tetrachloride	10.696	9.645	E3	9.8	15
14	Benzene	17.745	15.250	E3	14.1	15
15	Trichloroethene	8.629	7.622	E3	11.7	15
16	1,2-Dichloropropane	6.373	6.140	E3	3.7	15
17	Bromodichloromethane	11.632	11.632	E3	0.0	15
18	cis-1,3-Dichloropropene	8.166	8.613	E3	-5.5	15
19	trans-1,3-Dichloropropene	5.846	5.498	E3	6.0	15
20	1,1,2-Trichloroethane	4.381	4.416	E3	-0.8	15
21	Dibromochloromethane	11.247	12.456	E3	-10.7	15
22	Bromoform	11.911	12.410	E3	-4.2	15
23	4-Methyl-2-Pentanone	11.417	10.071	E3	11.8	15
24	Toluene	10.203	10.114	E3	0.9	15
25	Tetrachloroethene	7.979	7.700	E3	3.5	15
26	2-Hexanone	6.102	6.555	E3	-7.4	15
27	Chlorobenzene	15.646	13.501	E3	13.7	15
28	Ethylbenzene	6.362	5.649	E3	11.2	15
29	Xylene (total)	24.539	21.483	E3	12.5	15
30	Styrene	11.180	9.939	E3	11.1	15
31	1,1,1,2-Tetrachloroethane	9.059	8.544	E3	5.7	15
32	1,1,2,2-Tetrachloroethane	12.744	13.965	E3	-9.6	15
33	FREON-11	11.051	9.649	E3	12.7	20
35	FREON-12	10.985	11.024	E3	-0.4	20
36	FREON-113	10.158	9.275	E3	8.7	20
43	Freon-22	261.963	219.240		16.3	20
44	Freon-141B	9.452	8.103	E3	14.3	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2924.D

Acq On : 30 Jul 2012 6:40 pm

Sample : LCS 50 ng

Misc : 30JULY12

MS Integration Params: rteint.p

Vial: 1

Operator: Raphe HGS

Inst : GC/MS Ins

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\070112N.M (RTE Integrator)

Title : FULL SCAN

Last Update : Mon Jul 30 19:02:39 2012

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	454.157	364.900		19.7	25
2	Bromomethane	164.647	178.440		-8.4	25
3	Chloroethane	2.701	2.185	E3	19.1	25
4	1,1-Dichloroethene	4.132	3.380	E3	18.2	20
6	Methylene Chloride	1.646	1.504	E3	8.6	20
7	1,2-Dichloroethene (total)	9.615	8.422	E3	12.4	20
8	1,1-Dichloroethane	9.104	7.425	E3	18.4	20
9	Chloroform	11.748	10.185	E3	13.3	20
10	1,2-Dichloroethane	5.352	4.373	E3	18.3	20
12	1,1,1-Trichloroethane	16.632	13.305	E3	20.0	20
13	Carbon Tetrachloride	10.696	9.445	E3	11.7	20
14	Benzene	17.745	14.578	E3	17.8	20
15	Trichloroethene	8.629	6.912	E3	19.9	20
16	1,2-Dichloropropane	6.373	6.326	E3	0.7	20
17	Bromodichloromethane	11.632	9.831	E3	15.5	20
18	cis-1,3-Dichloropropene	8.166	7.268	E3	11.0	20
19	trans-1,3-Dichloropropene	5.846	6.438	E3	-10.1	20
20	1,1,2-Trichloroethane	4.381	3.820	E3	12.8	20
21	Dibromochloromethane	11.247	10.938	E3	2.7	20
22	Bromoform	11.911	11.582	E3	2.8	20
24	Toluene	10.203	9.758	E3	4.4	20
25	Tetrachloroethene	7.979	7.184	E3	10.0	20
27	Chlorobenzene	15.646	13.853	E3	11.5	20
28	Ethylbenzene	6.362	5.867	E3	7.8	20
29	Xylene (total)	24.539	22.995	E3	6.3	20
30	Styrene	11.180	9.775	E3	12.6	20
31	1,1,1,2-Tetrachloroethane	9.059	7.532	E3	16.9	20
32	1,1,2,2-Tetrachloroethane	12.744	11.357	E3	10.9	20
33	FREON-11	11.051	10.851	E3	1.8	25
35	FREON-12	10.985	9.240	E3	15.9	25
36	FREON-113	10.158	8.491	E3	16.4	25
43	Freon-22	261.963	239.100		8.7	25
44	Freon-141B	9.452	7.657	E3	19.0	25

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum

DATE: 30 July 2012

ANALYST: Raphe Pavlick STD LOT#: ULTRA CG1988 INSTRUMENT ID: 2415A8202

File Name : H:\HYDRO\1\METHODS\INT73011A.M (RTE Integrator)
 Date : 7/30/2012
 Lab Name : HydroGeoSpectrum
 Report Name : Initial Calibration

Integration File:
 File Name : H:\HYDRO\1\METHODS\INT73011A.M
 File Name : H:\HYDRO\1\METHODS\INT73011A.M

	Compound	1000	100	20	5	500	Avg	%RSD	AccRge
1)	Vinyl Chloride	1.352	1.052	1.004	1.041	1.465	1.183	E3	17.82 30
2)	Bromomethane	1.167	0.820	1.640	1.702	1.146	1.295	E2	28.62 30
3)	Chloroethane	5.652	4.388	4.505	8.278	5.724	5.709	E2	27.41 30
4)	1,1-Dichloroethene	1.578	1.196	1.535	1.814	1.648	1.554	E3	14.58 20
6)	Methylene Chloride	1.794	1.561	1.815	2.105	1.626	1.780	E3	11.87 20
7)	1,2-Dichloroethene (c		2.237	2.651	2.669	2.115	2.418	E3	11.74 20
8)	1,1-Dichloroethane	3.561	3.515	3.828	4.190	3.074	3.634	E3	11.35 20
9)	Chloroform	2.880	3.019	3.010	2.893	1.802	2.721	E3	19.02 20
10)	1,2-Dichloroethane	2.735	3.257	2.714	2.466	1.843	2.603	E3	19.71 20
12)	1,1,1-Trichloroethane	1.996	2.114	2.022	2.327	1.879	2.067	E3	8.09 20
13)	Carbon Tetrachloride	1.902	2.322	2.175	2.681	1.592	2.134	E3	19.38 20
14)	Benzene	0.989	1.010	0.735	0.669	1.028	0.886	E4	19.20 20
15)	Trichloroethene	1.462	1.386	1.540	1.911	1.205	1.501	E3	17.38 20
16)	1,2-Dichloropropane	3.679	3.815	4.852	4.451	3.674	4.094	E3	12.98 20
17)	Bromodichloromethane	1.281	1.265	1.488	1.726	1.180	1.388	E3	15.86 20
18)	cis-1,3-Dichloroprope	1.328	1.536	1.258	1.008	1.317	1.289	E3	14.67 20
19)	trans-1,3-Dichloropro	5.858	6.748	5.996	5.622	6.162	6.077	E2	6.98 20
20)	1,1,2-Trichloroethane	1.576	1.626	1.912	2.127	1.434	1.735	E3	16.12 20
21)	Dibromochloromethane	1.136	1.335	1.180	1.744	1.125	1.304	E3	19.91 20
22)	Bromoform	1.045	1.104	0.879	0.644	1.028	0.940	E3	19.67 20
24)	Toluene	4.166	4.234	5.141	5.875	3.782	4.640	E3	18.36 20
25)	Tetrachloroethene	1.016	1.362	1.062	1.367	0.955	1.152	E3	17.13 20
27)	Chlorobenzene	4.087	4.735	5.112	6.189	3.900	4.805	E3	19.05 20
28)	Ethylbenzene	1.978	2.636	2.686	2.401	1.994	2.339	E3	14.53 20
29)	Xylene (total)	0.668	0.771	0.835	1.013	0.650	0.787	E4	18.69 20
30)	Styrene	4.003	4.005	5.886	4.835	3.938	4.533	E3	18.57 20
31)	1,1,1,2-Tetrachloroet	0.998	1.077	1.163	1.500	0.987	1.145	E3	18.40 20
32)	1,1,2,2-Tetrachloroet	1.648	1.913	2.112	2.435	1.589	1.940	E3	17.93 20
33)	FREON-11	4.354	3.619	5.120	5.370	3.913	4.475	E2	16.87 30
34) S	Deutero-chloroform	3.748	3.582	3.530			3.620	E2	3.14 25
35)	FREON-12	1.817	1.425	1.412	2.422	1.669	1.749	E2	23.63 30
36)	FREON-113	1.229	0.917	1.242	2.008	1.317	1.343	E3	29.97 30
38) G	HYDROCARBONS		3.460				3.460	E3	0.00 30
39) s	D6-BENZENE	1.486	1.409	1.335			1.410	E3	5.36 25
41) S	D6-ACETONE	4.435	4.293	4.597			4.442	E2	3.42 25
42) S	D2-Dichloromethane	4.452	4.343	4.598			4.464	E2	2.87 25
43)	Freon-22	0.935	0.840	0.793	1.076	0.848	0.898	E3	12.46 30
44)	Freon-141B	0.994	1.439	1.534	1.605	1.274	1.369	E3	17.79 30
53) S	D8-TOLUENE	1.036	1.047	1.099			1.060	E3	3.15 25

Evaluate INITIAL LCS Report

Data File : C:\HPCHEM\1\DATA\WOB9132.D Vial: 1
 Acq On : 30 Jul 2012 9:58 am Operator: Raphe
 HGS
 Sample : LCS 50 ng Inst : GC/MS
 Ins
 Misc : 30JULY12 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\N073012A.M (RTE Integrator)
 Title : FULL SCAN
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50 Max. R.T. Dev
 0.50min
 Max. RRF Dev : 25 Max. Rel. Area : 150

	Compound	AvgRF	CCRF	%Dev	AccRge
1	Vinyl Chloride	1.183	1.034	E3	12.6 20
2	Bromomethane	129.493	134.880		-4.2 20
3	Chloroethane	570.938	493.400		13.6 20
4	1,1-Dichloroethene	1.554	1.540	E3	0.9 15
6	Methylene Chloride	1.780	1.588	E3	10.8 15
8	1,1-Dichloroethane	3.634	3.132	E3	13.8 15
9	Chloroform	2.721	2.459	E3	9.6 15
10	1,2-Dichloroethane	2.603	2.714	E3	-4.3 15
12	1,1,1-Trichloroethane	2.067	1.829	E3	11.5 15
13	Carbon Tetrachloride	2.134	2.037	E3	4.5 15
14	Benzene	8.863	9.656	E3	-8.9 15
15	Trichloroethene	1.501	1.696	E3	-13.0 15
16	1,2-Dichloropropane	4.094	3.526	E3	13.9 15
17	Bromodichloromethane	1.388	1.207	E3	13.0 15
18	cis-1,3-Dichloropropene	1.289	1.425	E3	-10.6 15
19	trans-1,3-Dichloropropene	607.724	667.960		-9.9 15
20	1,1,2-Trichloroethane	1.735	1.596	E3	8.0 15
21	Dibromochloromethane	1.304	1.182	E3	9.4 15
22	Bromoform	0.940	0.910	E3	3.2 15
24	Toluene	4.640	4.495	E3	3.1 15
25	Tetrachloroethene	1.152	1.186	E3	-3.0 15
27	Chlorobenzene	4.805	4.426	E3	7.9 15
28	Ethylbenzene	2.339	2.382	E3	-1.8 15
29	Xylene (total)	7.874	7.989	E3	-1.5 15
30	Styrene	4.533	4.998	E3	-10.3 15
31	1,1,1,2-Tetrachloroethane	1144.912	1106.980		3.3 15
32	1,1,2,2-Tetrachloroethane	1.940	1.685	E3	13.1 15
33	FREON-11	447.540	406.560		9.2 20
35	FREON-12	174.885	176.320		-0.8 20
36	FREON-113	1.343	1.240	E3	7.7 20
43	Freon-22	898.490	824.240		8.3 20
44	Freon-141B	1369.180	1406.900		-2.8 20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2924.D

Acq On : 30 Jul 2012 6:40 pm

Sample : LCS 50 ng

Misc : 30JULY12

MS Integration Params: rteint.p

Vial: 1

Operator: Raphe HGS

Inst : GC/MS Ins

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\070112N.M (RTE Integrator)

Title : FULL SCAN

Last Update : Mon Jul 30 19:02:39 2012

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	454.157	364.900		19.7	25
2	Bromomethane	164.647	178.440		-8.4	25
3	Chloroethane	2.701	2.185	E3	19.1	25
4	1,1-Dichloroethene	4.132	3.380	E3	18.2	20
6	Methylene Chloride	1.646	1.504	E3	8.6	20
7	1,2-Dichloroethene (total)	9.615	8.422	E3	12.4	20
8	1,1-Dichloroethane	9.104	7.425	E3	18.4	20
9	Chloroform	11.748	10.185	E3	13.3	20
10	1,2-Dichloroethane	5.352	4.373	E3	18.3	20
12	1,1,1-Trichloroethane	16.632	13.305	E3	20.0	20
13	Carbon Tetrachloride	10.696	9.445	E3	11.7	20
14	Benzene	17.745	14.578	E3	17.8	20
15	Trichloroethene	8.629	6.912	E3	19.9	20
16	1,2-Dichloropropane	6.373	6.326	E3	0.7	20
17	Bromodichloromethane	11.632	9.831	E3	15.5	20
18	cis-1,3-Dichloropropene	8.166	7.268	E3	11.0	20
19	trans-1,3-Dichloropropene	5.846	6.438	E3	-10.1	20
20	1,1,2-Trichloroethane	4.381	3.820	E3	12.8	20
21	Dibromochloromethane	11.247	10.938	E3	2.7	20
22	Bromoform	11.911	11.582	E3	2.8	20
24	Toluene	10.203	9.758	E3	4.4	20
25	Tetrachloroethene	7.979	7.184	E3	10.0	20
27	Chlorobenzene	15.646	13.853	E3	11.5	20
28	Ethylbenzene	6.362	5.867	E3	7.8	20
29	Xylene (total)	24.539	22.995	E3	6.3	20
30	Styrene	11.180	9.775	E3	12.6	20
31	1,1,1,2-Tetrachloroethane	9.059	7.532	E3	16.9	20
32	1,1,2,2-Tetrachloroethane	12.744	11.357	E3	10.9	20
33	FREON-11	11.051	10.851	E3	1.8	25
35	FREON-12	10.985	9.240	E3	15.9	25
36	FREON-113	10.158	8.491	E3	16.4	25
43	Freon-22	261.963	239.100		8.7	25
44	Freon-141B	9.452	7.657	E3	19.0	25

Attachment C

Laboratory Report
Enviro-Chem Laboratory

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: July 26, 2012

Mr. Rick Fero
Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

Project: **758 Continental Heat**
Lab I.D.: **120720-11 through -28**

Dear Mr. Fero:

The **analytical results** for the soil samples, received by our lab on July 20, 2012, are attached. The samples were received chilled, intact and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

DATE RECEIVED: 07/20/12

MATRIX: SOIL

DATE EXTRACTED: 07/24/12

DATE SAMPLED: 07/20/12

DATE ANALYZED: 07/24/12

REPORT TO: MR. RICK FERO

DATE REPORTED: 07/26/12

TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS

METHOD: EPA 8015B

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
MW6m 85	120720-27	75.6^	137*	158	1
METHOD BLANK		ND	ND	ND	1
	PQL	10	10	50	

COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR


PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

^ = PEAKS IN GASOLINE RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF GASOLINE STANDARD

* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

Data Reviewed and Approved by: 

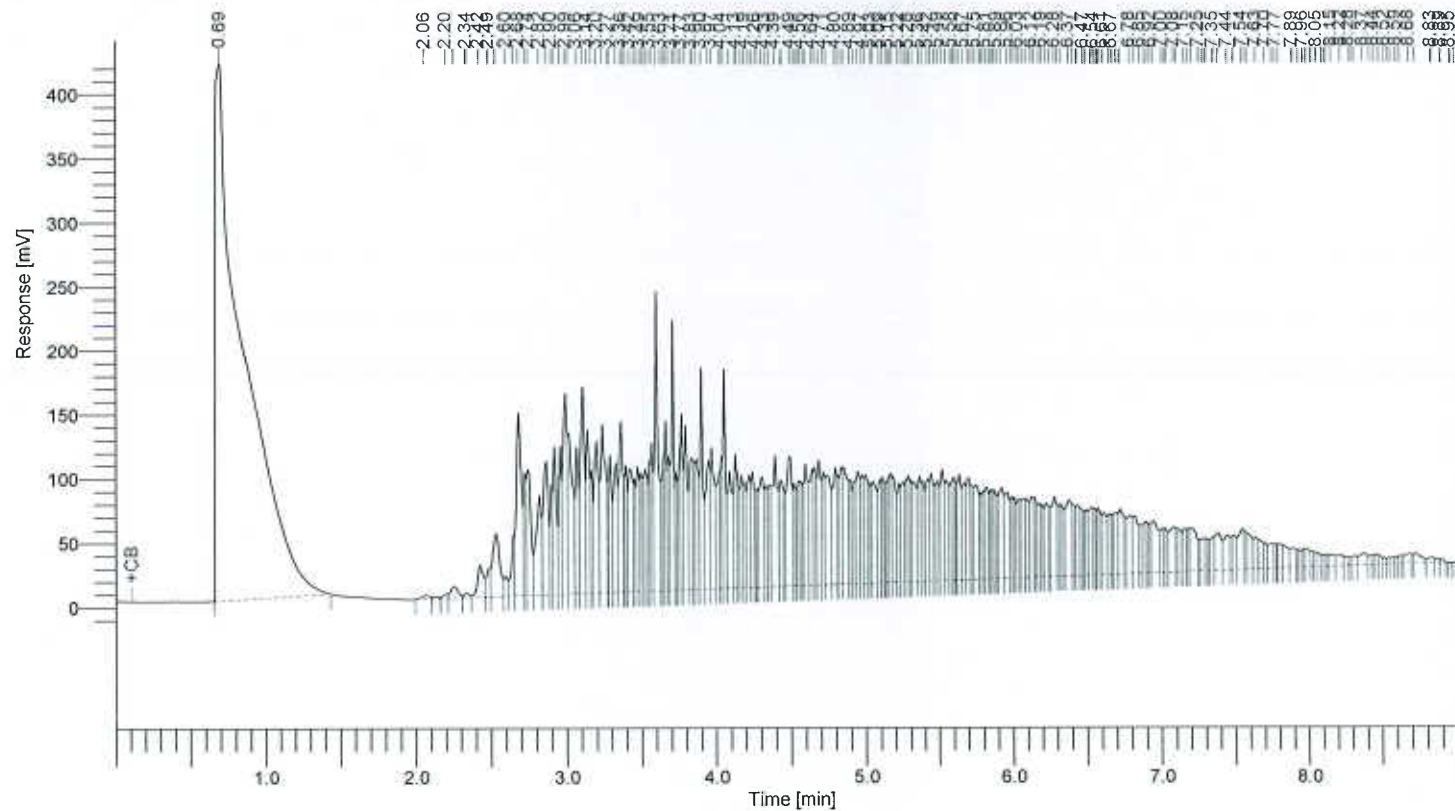
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0648
Sample Name : 120720-27 20/2
Instrument Name : GC-I
Rack/Vial : 0/24
Sample Amount : 1.000000
Cycle : 7

Date : 7/25/2012 1:49:02 PM
Data Acquisition Time : 7/24/2012 3:11:39 PM
Channel : A
Operator : Manager
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-I\02012\1207\120724\A032.rst

Sequence File : D:\GC DATA\GC-I\02012\1207\120724\120724.seq



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	3178749	755.8
C11-C22	11667846	1369.7
C23-C35	7168013	1581.6
	22014609	3707.1

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 7/24/2012

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **120723-7 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2810	112%	2980	119%	6%	75-125	0-20%

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	163	81%	75-125

Analyzed and Reviewed By: ZC

Final Reviewer: P

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERRO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 5

LAB I.D.: 120720-11

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 5

LAB I.D.: 120720-11

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

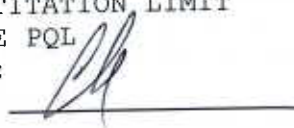
PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.295	0.005 (X5)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 10**

LAB I.D.: 120720-12

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.027	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

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CUSTOMER: **Fero Environmental Engineering, Inc.**
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Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 10**

LAB I.D.: 120720-12

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	1.30	0.005 (X10)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.082	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**MATRIX: SOILDATE SAMPLED: 07/20/12REPORT TO: MR. RICK FERODATE RECEIVED: 07/20/12DATE ANALYZED: 07/23/12DATE REPORTED: 07/26/12SAMPLE I.D.: **MW6m 15**

LAB I.D.: 120720-13

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.022	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOILDATE SAMPLED: 07/20/12REPORT TO: MR. RICK FERODATE RECEIVED: 07/20/12DATE ANALYZED: 07/23/12DATE REPORTED: 07/26/12SAMPLE I.D.: MW6m 15

LAB I.D.: 120720-13

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	1.80	0.005 (X10)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.057	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 20**

LAB I.D.: 120720-14

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.026	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.

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LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERRO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 20

LAB I.D.: 120720-14

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	1.59	0.005 (X10)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.074	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**MATRIX: **SOIL**DATE SAMPLED: **07/20/12**REPORT TO: **MR. RICK FERO**DATE RECEIVED: **07/20/12**DATE ANALYZED: **07/23/12**DATE REPORTED: **07/26/12**SAMPLE I.D.: **MW6m 25**LAB I.D.: **120720-15**

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLORO BENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLORO BENZENE	ND	0.005
1,3-DICHLORO BENZENE	ND	0.005
1,4-DICHLORO BENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.136	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**MATRIX: **SOIL**DATE SAMPLED: **07/20/12**REPORT TO: **MR. RICK FERO**DATE RECEIVED: **07/20/12**DATE ANALYZED: **07/23/12**DATE REPORTED: **07/26/12**SAMPLE I.D.: **MW6m 25**LAB I.D.: **120720-15**

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	2.60	0.005 (X50)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.170	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**MATRIX: **SOIL**DATE SAMPLED: **07/20/12**REPORT TO: **MR. RICK FERRO**DATE RECEIVED: **07/20/12**DATE ANALYZED: **07/23/12**DATE REPORTED: **07/26/12**SAMPLE I.D.: **MW6m 30**LAB I.D.: **120720-16**

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	0.007	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.185	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERRO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 30

LAB I.D.: 120720-16

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	3.51	0.005 (X50)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.158	0.005 (X5)
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 35

LAB I.D.: 120720-17

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	0.013	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.120	0.005 (X5)
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 35

LAB I.D.: 120720-17

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	2.51	0.005 (X50)
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.206	0.005 (X5)
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 40

LAB I.D.: 120720-18

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.049	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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LABORATORY REPORT

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431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 40

LAB I.D.: 120720-18

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.097	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.010	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: **758 Continental Heat**MATRIX: SOILDATE SAMPLED: 07/20/12REPORT TO: MR. RICK FERODATE RECEIVED: 07/20/12DATE ANALYZED: 07/23/12DATE REPORTED: 07/26/12SAMPLE I.D.: **MW6m 45**

LAB I.D.: 120720-19

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.013	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: **758 Continental Heat**MATRIX: **SOIL**DATE SAMPLED: **07/20/12**REPORT TO: **MR. RICK FERRO**DATE RECEIVED: **07/20/12**DATE ANALYZED: **07/23/12**DATE REPORTED: **07/26/12**SAMPLE I.D.: **MW6m 45**LAB I.D.: **120720-19****ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2****UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.016	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 50**

LAB I.D.: 120720-20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.005	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 50**

LAB I.D.: 120720-20

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.014	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: 758 Continental Heat

MATRIX: SOILDATE SAMPLED: 07/20/12REPORT TO: MR. RICK FERODATE RECEIVED: 07/20/12DATE ANALYZED: 07/23/12DATE REPORTED: 07/26/12SAMPLE I.D.: MW6m 55

LAB I.D.: 120720-21

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.031	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERRO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 55

LAB I.D.: 120720-21

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.086	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.007	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

MATRIX:SOIL

DATE RECEIVED: 07/20/12

DATE SAMPLED: 07/20/12

DATE ANALYZED: 07/23/12

REPORT TO:MR. RICK FERO

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 60

LAB I.D.: 120720-22

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY:

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOILDATE SAMPLED: 07/20/12REPORT TO: MR. RICK FERODATE RECEIVED: 07/20/12DATE ANALYZED: 07/23/12DATE REPORTED: 07/26/12SAMPLE I.D.: MW6m 60

LAB I.D.: 120720-22

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.011	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 65**

LAB I.D.: **120720-23**

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.079	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 65

LAB I.D.: 120720-23

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.041	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.006	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/24/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 70**

LAB I.D.: 120720-24

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X10
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.216	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/24/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 70

LAB I.D.: 120720-24

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X10
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.115	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.180	0.005 (X5)
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.**1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907****LABORATORY REPORT**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**MATRIX: **SOIL**DATE SAMPLED: **07/20/12**REPORT TO: **MR. RICK FERO**DATE RECEIVED: **07/20/12**DATE ANALYZED: **07/23/12**DATE REPORTED: **07/26/12**SAMPLE I.D.: **MW6m 75**LAB I.D.: **120720-25**

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.117	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 75

LAB I.D.: 120720-25

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.193	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.030	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/24/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 80**

LAB I.D.: 120720-26

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.008	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/24/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 80**

LAB I.D.: 120720-26

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.053	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 85

LAB I.D.: 120720-27

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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LABORATORY REPORT

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431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 85

LAB I.D.: 120720-27

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.027	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

SAMPLE I.D.: MW6m 90

LAB I.D.: 120720-28

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	0.126	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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CUSTOMER: **Fero Environmental Engineering, Inc.**
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Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: **758 Continental Heat**

MATRIX: SOIL

DATE RECEIVED: 07/20/12

DATE SAMPLED: 07/20/12

DATE ANALYZED: 07/23/12

REPORT TO: MR. RICK FERO

DATE REPORTED: 07/26/12

SAMPLE I.D.: **MW6m 90**

LAB I.D.: 120720-28

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	0.041	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	0.035	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



METHOD BLANK REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

METHOD BLANK FOR LAB I.D.: 120720-11 THROUGH -28

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

METHOD BLANK REPORT

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, #305
Brea, CA 92821
Tel (714) 256-2737 Fax (714) 256-1505

PROJECT: 758 Continental Heat

MATRIX: SOIL

DATE SAMPLED: 07/20/12

REPORT TO: MR. RICK FERO

DATE RECEIVED: 07/20/12

DATE ANALYZED: 07/23/12

DATE REPORTED: 07/26/12

METHOD BLANK FOR LAB I.D.: 120720-11 THROUGH -28

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5035/8260B, PAGE 2 OF 2

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

8260B QA/QC Report

Date Analyzed: 7/23-24/2012

Machine: C

Matrix: Solid/Soil/Liquid

Unit: mg/Kg (PPM)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 120723-LCS1/2

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Benzene	0	0.050	0.056	113%	0.054	108%	5%	75-125	0-20
Chlorobenzene	0	0.050	0.047	94%	0.045	89%	4%	75-125	0-20
1,1-Dichloroethene	0	0.050	0.051	101%	0.050	99%	2%	75-125	0-20
Toluene	0	0.050	0.052	104%	0.053	106%	2%	75-125	0-20
Trichloroethene (TCE)	0	0.050	0.054	109%	0.051	102%	7%	75-125	0-20

Lab Control Spike (LCS):

Analyte	spk conc	LCS	%RC	ACP %RC
Benzene	0.050	0.059	118%	75-125
Chlorobenzene	0.050	0.043	86%	75-125
Chloroform	0.050	0.051	101%	75-125
1,1-Dichloroethene	0.050	0.060	119%	75-125
Ethylbenzene	0.050	0.042	85%	75-125
o-Xylene	0.050	0.042	84%	75-125
m,p-Xylene	0.100	0.085	85%	75-125
Toluene	0.050	0.043	85%	75-125
1,1,1-Trichloroethane	0.050	0.048	97%	75-125
Trichloroethene (TCE)	0.050	0.050	100%	75-125

Surrogate Recovery	spk conc	ACP %RC	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			M-BLK	120723-33	120723-34	120720-11	120720-12	120720-13	120720-14
Dibromofluoromethane	50.0	70-130	117%	91%	88%	76%	96%	104%	98%
Toluene-d8	50.0	70-130	91%	89%	86%	99%	92%	92%	91%
4-Bromofluorobenzene	50.0	70-130	104%	111%	109%	110%	99%	100%	100%

Surrogate Recovery	spk conc	ACP %RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			120720-15	120720-16	120720-17	120720-18	120720-19	120720-20	120720-21
Dibromofluoromethane	50.0	70-130	83%	89%	108%	112%	106%	108%	106%
Toluene-d8	50.0	70-130	90%	93%	95%	93%	90%	91%	91%
4-Bromofluorobenzene	50.0	70-130	94%	96%	98%	100%	97%	99%	94%

Surrogate Recovery	spk conc	ACP %RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			120720-22	120720-23	120720-24	120720-25	120720-26	120720-27	120720-28
Dibromofluoromethane	50.0	70-130	112%	114%	92%	109%	97%	99%	89%
Toluene-d8	50.0	70-130	91%	92%	87%	111%	105%	87%	92%
4-Bromofluorobenzene	50.0	70-130	96%	98%	110%	76%	53*	60*	3*

* = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.

S.R. = Sample Results

%RC = Percent Recovery

spk conc = Spike Concentration

ACP %RC = Accepted Percent Recovery

MS = Matrix Spike

MSD = Matrix Spike Duplicate

Analyzed/Reviewed By: 

Final Reviewer: _____

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,

Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ 72 Hours
- ☒ 1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
14160-5	170770-11	7/20	8:48	SAL	4	✓	✓	✓	✓	✓		
10	-12	7/20	8:52	"	✓	✓	✓	✓	✓	✓		
15	-13	7/20	8:54	"	✓	✓	✓	✓	✓	✓		
20	-14	7/20	8:57	"	✓	✓	✓	✓	✓	✓		
25	-15	7/20	9:01	"	✓	✓	✓	✓	✓	✓		
30	-16	7/20	9:03	"	✓	✓	✓	✓	✓	✓		
35	-17	7/20	9:07	"	✓	✓	✓	✓	✓	✓		
40	-18	7/20	9:10	"	✓	✓	✓	✓	✓	✓		
45	-19	7/20	9:13	"	✓	✓	✓	✓	✓	✓		
50	-20	7/20	9:17	"	✓	✓	✓	✓	✓	✓		
55	-21	7/20	9:21	"	✓	✓	✓	✓	✓	✓		
60	-22	7/20	9:25	"	✓	✓	✓	✓	✓	✓		
65	-23	7/20	9:29	"	✓	✓	✓	✓	✓	✓		
70	-24	7/20	9:41	"	✓	✓	✓	✓	✓	✓		
75	-25	7/20	9:36	"	✓	✓	✓	✓	✓	✓		
Company Name: Felo Environmental RD #305				Project Contact: PCK Felo				Sampler's Signature: <i>[Signature]</i>				
Address: 431 W. LAMBERT RD				Tel: (914) 256-2737				Project Name/ID: 758				
City/State/Zip: BREA CA 92821				Fax: (914) 256-1505				CONTINENTAL IDENT				
Relinquished by: <i>[Signature]</i>				Received by: <i>[Signature]</i>				Date & Time: 7/20/12 1134r				
Relinquished by:				Received by:				Date & Time:				
Relinquished by:				Received by:				Date & Time:				

Instructions for Sample Storage After Analysis:
☐ Dispose of ☐ Return to Client ☒ Store (30 Days)
☐ Other:

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE - YELLOW TO CLIENT

Attachment D

Health & Safety Plan

FERO ENGINEERING PROJECT SITE SAFETY PLAN

1.0 GENERAL INFORMATION

Original Site Safety Plan: Yes (X) No () Rev. No. ____

Project Number: 10-0758

Project Manager: John Petersen

Project Name: Continental Heat Treating, Inc.

Site Name: Continental Heat Treating, Inc.

Site Address: 10643 South Norwalk Boulevard

Work Description: Groundwater Monitoring/Soil Gas Survey/ Indoor Air Sampling

Plan Prepared By: John Petersen

Date: 4/16/2012

Work Start Date: 6/1/12

Work Hours: 8 a.m. to 5 p.m.

Thomas Guide Coordinates: Page 706 / H5

Client Site Contact: John Petersen

Client Office Contact: Jim Stull

Client Site Safety Officer: N/A

Fero Engineering Site Safety Officer: John Petersen

Source/Age of Information: Client/Current

Incident/Site Description: Soil and Groundwater Volatile Organic Compound Impacts

Physical Description of Facility: Metal Heat Treating Facility

Describe Special Site Entry Procedures: None

Operation Description of Facility: Metal Heat Treating Facility

Site Status: Active (X) Inactive ()

Need to Evacuate Nearby People: Yes () No () N/A (X)

Evacuation Distance: N/A

Initiated By: N/A

Officials Present and Capacity: RWQCB

Warning Method/Signal for Site Evacuation: Verbal

Presence of Hazardous Materials: Potential () Confirmed (X)

Location of Hazardous Materials: Identified (X) Assumed () Unknown ()

Number of Feet to Nearest Right of Way: 30 ft.

Distance, Location, & Number of Nearest Phone: On-site mobile. (714) 624-7280

Nearest Public Road: 30 ft.

Nearest Water: 30 ft.

Nearest Fire Extinguisher: Drill Rig or Fero Truck

2.0 HAZARDOUS INFORMATION

Health Hazard:

<u>Material</u>	<u>Body Entry Route</u>	<u>Symptoms</u>
Tetrachloroethylene	Inhalation/Contact	Malaise; dizziness; headache; increased perspiration; fatigue; in coordination; impaired mental acuity
Trichloroethylene	Inhalation/Contact	Dizziness; incoordination; drowsiness
1,1-Dichloroethylene (DCE)	Inhalation/Contact	Eye irritation; respiratory system
1,2-Dichloroethane (DCA)	Inhalation/Contact	Eye irritation; respiratory system

First Aid: Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration, if breathing is difficult, give oxygen. In case of contact with contaminated material, flush with running water for at least 15 minutes. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site. First aid kit is located in Fero Engineering vehicle.

Material Exposure Information:

<u>Material</u>	<u>PEL</u>	<u>IDLH</u>
Tetrachloroethylene	100 ppm	150 ppm
Trichloroethylene	100 ppm	1000 ppm
1,1-Dichloroethylene	200 ppm	1000 ppm
1,2-Dichloroethane	100 ppm	3000 ppm

PEL - Permissible exposure limit over an 8-hour time weighted average to which any employee may be exposed

IDLH - Immediately dangerous to life or health level representing a maximum concentration from which one could escape within 30 minutes without any escape impairing symptoms or any irreversible health effects.

Potential Acute Toxicity: All compounds cause central nervous system depression, kidney changes including: decreased urine flow, swelling especially around eyes, and anemia, and liver changes including: fatigue, malaise, dark urine, liver enlargement, and jaundice. Trichloroethylene and Tetrachloroethylene are suspected carcinogens.

Hazard Type: Liquid (X) Solid () Vapor/Gas (X) Sludge ()

Anticipated Hazard Level: High () Moderate () Low (X) Unknown ()

Site Monitoring Equipment: PID and Olfactory senses (odor threshold for PCE is 27 ppm)

Heat Stress Conditions: Yes () No () Possible (X)

Dust Monitoring: Yes () No (X)

Air Monitoring Protocol: Monitor breathing zone of persons nearest the source of contamination.

Conditions for Suspension of Work: Determination of an ambient air concentration greater than 100 ppm using PID.

Potential Site Physical Hazards: On site equipment operation.

3.0 PERSONAL PROTECTION

Level of Protection Planned: D - Hardhat, (dry) coverall or Tyvek/(wet) Saranex, (dry) safety glasses/(wet) goggles, (dry/wet) Nitrile gloves, (dry) steel toe boots/(wet) Neoprene steel toe boots.

Conditions to Upgrade to Level C: Exceedance of the lowest PEL (100 ppm) and work is to continue. Level C contingency equipment includes: organic vapor respirators with half face masks.

Instruction for Disposal of Contaminated Materials: Groundwater removed and contaminated clothing, which is to be discarded, shall be contained onsite in DOT approved 55-gallon drums until a determination is made as to the level of contamination. In the event that contaminated materials require offsite disposal or treatment, a certified waste hauler under proper manifesting and vehicle placarding shall transport them.

4.0 EMERGENCY PLANNING

Police Department: 911

Fire Department: 911

Local Airport: N/A

Air Evacuation: N/A

Local Hospital:

Downey Regional Medical Center
11500 Brookshire Ave.
Downey, California 90241
562-904-5000
Thomas Guide Page: 706 B/6

Fero Engineering Office Contact: Rick L. Fero

HEALTH AND SAFETY PLAN SIGNATURE FORM

Site Name: See Address







Job Number: 10-0758

Region: Los Angeles County

Location: 10643 South Norwalk Blvd., Santa Fe Springs

Field personnel are required to receive a copy of the final health and safety plan (HSP) for the above referenced work site. The project manager is responsible for distribution of this document to all involved personnel and to discuss areas of concern identified in the document prior to initiating operations at the site. All personnel directly involved with field operations at the referenced site must sign this form indicating their access to, review of, and agreement to compliance with measures outlined in the HSP. All individuals signing this form must be capable, through training, of successfully performing operations specified within the HSP. The original of this form is made a permanent part of the project file.

I have reviewed, understand, and agree to comply with the provisions of the health and safety plan for the above referenced site during conduct of activities on this project.

	SIGNATURE	PRINTED NAME	DATE
1.		Cameron Herber	7/9/12
2.			7/9/12
3.			7/9/12
4.		RIK L. FERN	7/9/12
5.		GERARDO GUTIERREZ	7/18/12
6.		GERARDO GUTIERREZ	7.18.12
7.			
8.			
9.			
10.			



Trip to:

11500 Brookshire Ave

Downey, CA 90241-4917

4.47 miles / 9 minutes

Notes



10643 Norwalk Blvd, Santa Fe Springs, CA 90670-3821



1. Start out going **south** on **Norwalk Blvd** toward **Florence Ave.** [Map](#)

0.1 Mi

0.1 Mi Total



2. Turn **right** onto **Florence Ave.** [Map](#)

2.8 Mi

If you reach Lakeland Rd you've gone about 0.2 miles too far

2.9 Mi Total



3. Turn **left** onto **Lakewood Blvd / CA-19 S.** [Map](#)

0.9 Mi

Lakewood Blvd is just past Vultee St

Jack in the Box is on the corner

If you reach Tristan Dr you've gone a little too far

3.8 Mi Total



4. Turn **right** onto **Firestone Blvd / CA-42 W.** [Map](#)

0.4 Mi

Firestone Blvd is 0.1 miles past 3rd St

Acapulco Mexican Restaurant is on the corner

If you reach Margaret St you've gone about 0.1 miles too far

4.2 Mi Total



5. Turn **left** onto **Brookshire Ave.** [Map](#)

0.3 Mi

Brookshire Ave is 0.1 miles past Patton Rd

Ups Store is on the corner

If you reach Dolan Ave you've gone about 0.1 miles too far

4.5 Mi Total



6. **11500 BROOKSHIRE AVE** is on the **left.** [Map](#)

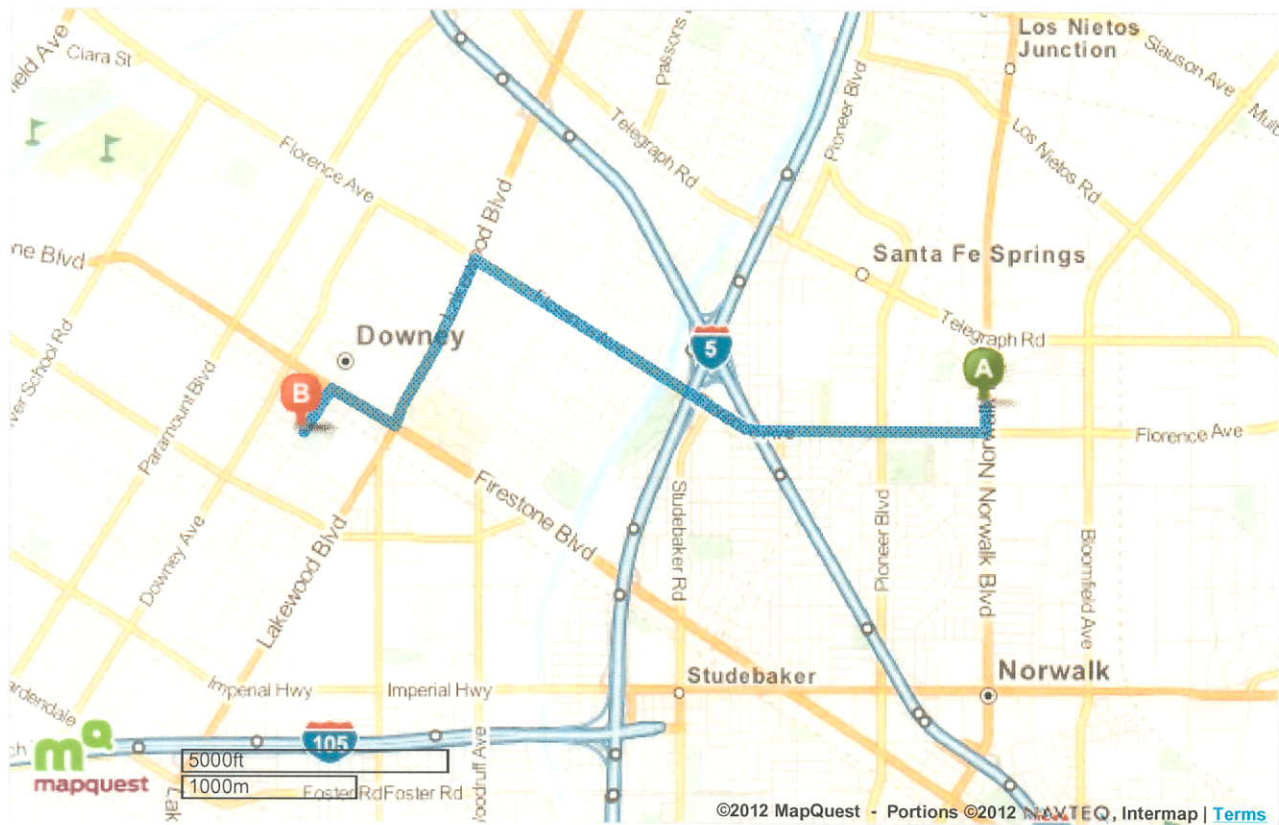
Your destination is just past Davis St

If you reach Manatee St you've gone a little too far



11500 Brookshire Ave, Downey, CA 90241-4917

Total Travel Estimate: **4.47 miles - about 9 minutes**



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Attachment E

Well Permits

5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 TELE (626) 430-5420 FAX (626) 813-3016

DATE 6-21-12

***** (DEPARTMENT USE ONLY) *****
R.E.M.S. NO. 6330

NOTICE

This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits such as: coastal commission, water rights, encroachment, utility lines detection, city public works division.

Revised: March 2012

Attachment F

Dulin and Boynton Survey Data

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC	EFFECTIVE_DATE
	MW-5D		8/1/2012	33.9367072	-118.0734071	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	
	MW-5M		8/1/2012	33.9367069	-118.0734254	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	
	MW-5S		8/1/2012	33.9367073	-118.0734409	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	
	MW-6D		8/1/2012	33.9371196	-118.0736742	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	
	MW-6M		8/1/2012	33.9371202	-118.0737085	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	
	MW-6S		8/1/2012	33.9371205	-118.0737249	CGPS	NAD83	20	DOUGLAS BOYNTON PLS, LS4787	L399	NGS PID AI4489 AND AJ1841 EPOCH DATE 2000.35	

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFFECTIVE_DATE
	MW-5D	8/1/2012	137.54	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.26	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	
	MW-5M	8/1/2012	137.37	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.41	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	
	MW-5S	8/1/2012	137.49	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.29	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	
	MW-6D	8/1/2012	138.01	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.20	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	
	MW-6M	8/1/2012	137.95	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.22	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	
	MW-6S	8/1/2012	137.84	DIG	88	3	DOUGLAS BOYNTON PLS, LS4787	-0.40	LA COUNTY BM #Y9667 2005 ELEV= 136.173 FEET	

FERO
10643 NORWALK BLVD
SANTA FE SPRINGS, CA

<u>WELL</u>	<u>ELEV</u>	<u>DESC</u>	<u>NORTH</u>	<u>EAST</u>
MW-5D	137.54	4" PVC (N)	1799356.7	6539400.1
MW-5D	137.81	RIM		
MW-5D	137.80	CONCRETE		
MW-5M	137.37	4" PVC (N)	1799356.6	6539394.5
MW-5M	137.80	RIM		
MW-5M	137.78	CONCRETE		
MW-5S	137.49	4" PVC (N)	1799356.7	6539389.8
MW-5S	137.80	RIM		
MW-5S	137.78	CONCRETE		
MW-6D	138.01	4" PVC (N)	1799506.8	6539319.1
MW-6D	138.24	RIM		
MW-6D	138.21	CONCRETE		
MW-6M	137.95	4" PVC (N)	1799507.0	6539308.8
MW-6M	138.20	RIM		
MW-6M	138.17	CONCRETE		
MW-6S	137.84	4" PVC (N)	1799507.1	6539303.8
MW-6S	138.24	CONCRETE		

BENCHMARK:

VERTICAL DATUM NAVD88

COUNTY OF LOS ANGELES BM #Y9667, BM TAG IN N WALL C.B.
20' N/O BCR AT NW COR NORWALK BLVD AND FLORENCE AVE

2005 ELEV= 136.173 FEET NAVD88

HORIZONTAL DATUM NAD83, ZONE 5

NGS PID STATIONS AI4489 AND AJ1841 EPOCH DATE 2000.35